CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, May 2, 1907.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close. Work. Place. On file. See issue
May
•8—Excavation..Boston. Mass......S. & B. S..... 4-11
•8—Subways..Washington, D. C....S. & B. S...... 4-25
•15—Drainage tunnel..Cripple Creek, Colo. ....S............ 4-25
•3—Crematory..Salt Lake City, Utah ....S. & B. S..... 4-25
•6—Sewer..Binghamton, N. Y......P., S. & B. S.. 4-18
•15—Bridge work..Washington, D. C.S. & B. S..... 4-11
•13—Reservoir..Waterville, N. Y....S. & B. S..... 4-18
•18—Breakwater superstructure.. Buffalo, N. Y..S. & B. S..... 4-25
•21—Ditches..Mitchell, Neb...........P., S. & B. S.. 4- 4
•21—Riprap..New Haven, Conn......S. & B. S..... 4-25
21—Engineering supplies.. Tompkinsville, N. Y..S. & B. S..... 5- 2
•22—Dredging..New London, Conn...S. & B. S..... 4-25
June
1—Power plant apparatus.. Portsmouth, N. H..S............ 5- 2
1—Motor generator sets.. New York, N. Y..S............ 5- 2
1—Laundry..Portsmouth, N. H...S............ 5- 2

•Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close. Work. Place. On file. See issue
May 6.Light and power, Atlanta, Ga...........May 2
May 8.Electrical equipment, Winnipeg, Man...May 2
May 9.Equipment, Reedsville, Wis............May 2
May 10.Light plant, Battleford, Sask..........Apr. 25
May 14.Naphtha lights, Des Moines, Iowa.......May 2
May 16.Restoring mains, Washington, D. C....May 2
May 20.Equipment, Los Angeles, Cal...........Mar. 28
Advertised. Eng. News, Mar. 28 to Apr. 18
May 29.Electrical apparatus, Chicago, Ill........May 2
June 1.Motor generator sets, New York, N. Y..May 2
June 1.Power plant apparatus, Portsmouth, N. H.May 2
June 1.Electric fixtures, Fort Wood, N. Y....Apr. 18
June 12.Light plant, Fort Wayne, Ind..........May 2

BRIDGES.

May 2.Bridge, Buffalo, N. Y...................Apr. 25
May 3.Bridge, St. Thomas, Ont................May 2
May 3.Superstructure, etc., Upper Sandusky, O.May 2
May 4.Abutments, Cleveland, Ohio ....Apr. 18
May 4.Viaduct, Milwaukee, Wis...............Apr. 11
May 6.Bridge, Greensburg, Ind...............Apr. 18
May 6.Bridge repair, Tipton, Ind..............Apr. 25
May 6.Culvert, Leavenworth, Kan..............Apr. 25
May 6.Bridges, Elyria, Ohio ....Apr. 25
May 6.Piers, Rapidan, Minn....................May 2
May 6.Bridges, Corydon, Ind..................May 2
May 6.Bridge, Cathlamet, Wash................May 2
May 6.Bridges, Mandan, N. Dak................May 2
May 7.Bridge, Cullman, Wash..................May 2
May 7.Bridge, Mt. Vernon, Wash...............May 2
May 7.Bridge, San Jose, Cal...................May 2
May 7.Bridge, Troy, N. C......................May 2
May 7.Abutments, Hopkinsville, Ky............May 2
May 7.Bridges, San Andreas, Cal..............Apr. 25
May 7.Bridge, etc., Covington, Ind............Apr. 18
May 7.Bridge, Princeton, Ind.................Apr. 18
May 8.Bridges, Kokomo, Ind...................Apr. 18
May 8.Bridges, Coshocton, Ohio...............Apr. 11
May 10.Bridge, etc., Upper Sandusky, Ohio....Apr. 25
May 10.Bridge, Milwaukee, Wis................Apr. 25
May 10.Viaduct, Columbus, Ohio................May 2
May 12.Substructure, etc., Columbus, Ohio......Apr. 25
May 13.Culvert, Lorain, Ohio...................May 2
May 13.Bridge approach, New York, N. Y......May 2
May 15.Bridge work, Washington, D. C.........Apr. 11
Advertised, Eng. News, Apr. 11 to May 9.
May 15.Bridge and dam, Buckhorn, Ont.........May 2
May 20.Bridge, Emporia, Va....................May 2
May 20.Arch, etc., Canandaigua, N. Y..........May 2
Advertised, Engineering News, May 2.
May 27.Superstructures, etc., Chillicothe, Ohio..May 2
June 4.Bridge, Pensacola, Fla..................Apr. 18
Advertised, Eng. News, Apr. 18.

BUILDINGS.

May 2.Marble work, Burlington, Vt.............Apr. 4
May 6.Post-office, Trenton, N. J...............Apr. 4
May 6.Heating and ventilation, New York, N. Y.Apr. 25
May 6.Schools, New York, N. Y...............Apr. 25
May 7.Post-office, Lafayette, Ind.............Apr. 4
Advertised, Eng. News, Apr. 4 and 11.
May 8.Screening, Fort Oglethorpe, Ga.........Apr. 11
Advertised, Eng. News, Apr. 11 to May 2.
May 8.Heating, Poughkeepsie, N. Y............May 2
Advertised, Engineering News, May 2-9.
May 8.Public baths, New York, N. Y...........May 2
May 9.Building, Salem, Mass..................Apr. 25
May 13.Fire engine house, New York, N. Y....May 2
May 10.Buildings, Jacksonville, Fla............Apr. 25
May 13.Boiler plant, Philadelphia, Pa..........Apr. 25
Advertised, Eng. News, Apr. 25 and May 2.
May 13.Officers' quarters, Washington, D. C....Apr. 18
Advertised, Eng. News, Apr. 18 to May 9.
May 14.Post-office, Rockford, Ill..............Apr. 18
Advertised, Eng. News, Apr. 18 and 25.
May 15.Schools, San Jose, Cal.................Apr. 18
May 15.Storehouse, etc., Fort Screven, Ga.......Apr. 18
Advertised, Eng. News, Apr. 18 to May 9.
May 15.School, Maryville, Mo..................Apr. 11
May 15.Post-office, Denver, Colo................Apr. 4
May 17.Gymnasium, Whipple, Ariz..............Apr. 18
Advertised, Eng. News, Apr. 18 to May 2.
May 20.Lamp shop, Tompkinsville, N. Y.........Apr. 18
Advertised, Eng. News, Apr. 18 and 25.
May 27.Custom house, Washington, D. C.......May 2
May 28.Post-office, New York, N. Y...........May 2
June 4.State Capitol, Pierre, S. Dak...........Mar. 7
June 1.Heating, Ft. McPherson, Ga............May 2
June 1.Laundry, Portsmouth, N. H............May 2
July 1.Pulp plant, Niagara Falls, N. Y.........May 2

WATER SUPPLY AND IRRIGATION.

May 2.Completing pumping station, Phila., Pa..Apr. 4
Advertised, Eng. News, Apr. 4 to 25.
May 2.Reservoir, Astoria, Ore................Mar. 28
May 2.Artesian well, Wahpeton, N. Dak........Apr. 25
May 3.Pumping plant, reservoir, Hawaii ....Apr. 25
May 3.Water-works, Zumbro Falls, Minn.......Apr. 25
May 3.Water-works, Forsyth, Mont............Apr. 11
May 4.Boilers, etc., Pensacola, Fla............Apr. 18
May 4.Water-works, West Branch, Iowa........May 2
May 6.Water main, etc., Moorhead, Minn.......May 2
May 6.Water mains, Lisbon, N. Dak...........May 2
May 6.Engine, Muskogee, Ind. T...............May 2
May 6.Filters, etc., Albany, N. Y.............Apr. 4
Advertised, Eng. News, Apr. 4 to 18.
May 6.Artesian well, Jacksonville, Fla.......Apr. 25
May 6.Reservoir, etc., Carthage, N. Y........Apr. 25
Advertised, Eng. News, Apr. 25.
May 7.Ditches, Parker, S. Dak................Apr. 25
May 7.Pumps, boilers, etc., Madill, Ind. T.....Apr. 25
Advertised, Eng. News, Apr. 25 and May 2.
May 7.Water mains, Columbus, Miss........Apr. 18
May 7.Drain, Hallstead, Pa...................May 2
May 8.C.-i. pipe, bands, etc., Vancouver, B. C..May 2
May 10.Water-works, etc., Battleford, Sask....May 2
May 13.Reservoir, Waterville, N. Y...........Apr. 18
Advertised, Eng. News, Apr. 18 to May 9.
May 15.Ditch, Albany, Ill.....................Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.
May 16.Cleaning strainers, Galveston, Tex.....Apr. 18
Advertised, Eng. News, Apr. 18 and 25.
May 16.Water and gas mains, Washington, D. C.May 2
May 17.Ditch, Alexandria, Minn...............May 2
May 17.Cast-iron pipe, etc., Brandon, Man.....Apr. 25
May 21.Ditches, Mitchell, Neb.................Apr. 4
Advertised, Eng. News, Apr. 4 to 25.
May 27.Buildings, wells, etc., Cincinnati, Ohio..May 2
Advertised, Engineering News, May 2 to 16.
May 28.Canal, etc., Belle Fourche, S. Dak......Apr. 25
Advertised, Eng. News, Apr. 25 to May 16.
June 3.Well, etc., Fort Bliss, Tex..............Mar. 21
June 5.Dike, Crawford, Neb...................Mar. 21
Advertised. Eng. News, Mar. 21 to Apr. 11.
June 5.Filter plant, Burlington, N. J.........Apr. 25
Advertised, Eng. News, Apr. 25 to May 30.
June 19.Water-works, etc., Romney, W. Va.....Apr. 25
July 1.Dam, Portland, Ore...................Apr. 25

SEWERAGE.

May 2.Sewer, Prescott, Ariz..................Apr. 25
May 2.Sewers, etc., North Olean, N. Y........Apr. 25
Advertised, Eng. News, Apr. 25.
May 3.Sewers, Bronxville, N. Y..............Apr. 25
Advertised, Eng. News, Apr. 25.
May 3.Sewers, Sandersville, Ga...............Apr. 18
Advertised, Eng. News, Apr. 18 to May 2.
May 3.Drain, Utica, N. Y....................Apr. 11
May 4.Sewers, Evansville, Ind..................May 2
May 4.Sewers, Elkhart, Ind....................May 2
May 6.Sewers, Laporte, Ind....................May 2
May 6.Sewers, Orange, N. J....................May 2
May 6.Sewer, Fargo, N. Dak...................May 2
May 6.Sewer, Binghamton, N. Y.............Apr. 18
Advertised, Eng. News, Apr. 18 to May 2.
May 6.Sewers and water-works, Hastings, Minn.Apr. 25
May 7.Sewage tank, Summit, N. J............Apr. 25
Advertised, Eng. News, Apr. 25 and May 2.
May 7.Sewers, Trenton, N. J.................Apr. 18
May 7.Sewers, Oak Park, Ill...................May 2
May 6.Sewer, Perth Amboy, N. J...............May 2
May 7.Sewers, etc., New York, N. Y..........May 2
May 7.Sewers, Oconto, Wis....................May 2
May 8.Sewer, Lima, Ohio......................May 2
May 8.Sewers, Richmond, Ind.................Apr. 18
Advertised, Eng. News, Apr. 18.
May 8.Sewers, Boise, Idaho...................Apr. 18
May 8.Sewers, etc., New York, N. Y...........Apr. 25
May 9.Sewers, Lamar, Colo...................Apr. 25
Advertised, Eng. News, Apr. 25.
May 10.Sewers, Madison, Wis..................Apr. 25
May 11.Sewer, Kent, Ohio......................May 2
Advertised, Eng. News, May 2.
May 13.Sewer, Washington, D. C.............Apr. 18
Advertised, Eng. News, Apr. 18 and 25.
May 14.Sewers, Scottdale, Pa...................May 2
Advertised, Eng. News, May 2-9.
May 15.Sewers and water-works, Hartsville, S. C.May 2
May 15.Sewer pipe, bricks, etc., Washington, D. C.May 2
May 15.Sewers, Baltimore, Md..................May 2
Advertised, Eng. News, May 2.
May 15.Storm-water drains, Baltimore, Md.....Apr. 18
Advertised, Eng. News, Apr. 18.
May 16.Sewers, Waco, Tex....................Apr. 25
May 20.Sewer, Hot Springs, Ark...............May 2
May 20.Sewers, Barberton, Ohio...............May 2
Advertised, Eng. News, May 2-9.
May 28.Sewers, St. Joseph, Mich...............May 2
May 30.Sewers, Norfolk, Va....................May 2
Advertised, Eng. News, May 2-23.
June 1.Sewer outlet, Ft. Monroe, Va..........May 2
Advertised, Eng. News, May 2-23.
June 4.Sewer pipe, Alexandria, La............May 2

STREETS AND ROADS.

May 2.Paving, etc., New York, N. Y.........Apr. 25
May 2.Limestone, etc., New York, N. Y......Apr. 25
May 2.Paving, Petersburg, Va.................Apr. 18
Advertised, Eng. News, Apr. 18 and 25.
May 3.Highway, Painesville, Ohio ....Apr. 18
May 3.Paving, etc., Cincinnati, Ohio..........Apr. 18
May 3.Macadam, Lexington, N. C.............Apr. 25
Advertised, Eng. News, Apr. 25 and May 2.
May 3.Paving, etc., Franklin, Pa..............Apr. 25
May 3.Sidewalks, etc., Jackson, Mich..........May 2
May 4.Paving, Hamilton, Ohio...... ....May 2
May 4.Paving, Lorain, Ohio ....Apr. 25
Advertised, Eng. News Apr. 25 and May 2.
May 4.Improving roadway, Fredericksburg, Va.Apr. 25
May 4.Roads, Jeffersonville, Ind..............Apr. 25
May 4.Grading, etc., Oshkosh, Wis............Apr. 25
May 4.Paving, Boston, Mass...................Apr. 11
May 4.Paving, Chagrin Falls, Ohio...........Apr. 11
May 5.Road, Benzonia, Mich.................Apr. 25
May 6.Repairing pavement, New York, N. Y....Apr. 25
May 6.Cement walks, Ft. Porter, N. Y.........Apr. 25
May 6.Paving, White Plains, N. Y.............Apr. 25
May 6.Paving, etc., Montgomery, Ala.........Apr. 25
May 6.Road, Greensburg Ind..................Apr. 25
May 6.Walks, etc., Vancouver Barracks, Wash.Apr. 25
May 6.Paving, etc., Ashland, Ohio ....Apr. 18
May 6.Paving, etc., Ashland, Ohio.............May 2
Advertised, Eng. News, May 2.
May 6.Sidewalks, Ogdensburg, N. Y..........May 2
Advertised, Eng. News, May 2.
May 6.Macadam, Union, N. J..................May 2
May 7.Paving, Niagara Falls, N. Y............May 2
May 7.Paving, etc., New York, N. Y..........May 2
May 7.Sidewalks, etc., Trenton, N. J..........May 2
May 7.Broken stone, etc., New York, N .Y....May 2
May 7.Gravel road, Washington, Ind..........May 2
May 7.Paving, etc., Lima, Ohio..............May 2
May 7.Paving, Alexandria, La.................Mar. 28
May 7.Roads, Vincennes, Ind..................Apr. 18
May 7.Roads, Brazil, Ind.....................Apr. 18
May 7.Paving, Bayonne, N. J.................Apr. 25
Advertised, Eng. News Apr. 25 and May 2.
May 7.Macadam, etc., Madison, Wis............Apr. 25
May 7.Paving, etc., Cohoes, N. Y.............Apr. 25
May 7.Grading, etc., Ridgewood, N. J.........Apr. 25
May 7.Repairing pavements, Trenton, N. J....Apr. 25
May 7.Paving, etc., St. Louis, Mo............Apr. 25
May 8.Paving, etc., New York, N. Y........Apr. 25
May 8.Roads, Orleans, Ind...................Apr. 25
May 8.Paving, Chippewa Falls, Wis...........Apr. 25
May 8.Broken stone, etc., New York, N. Y.....May 2
May 8.Paving, etc., Toronto Junction, Ont.....May 2
May 8.Sidewalks, Ann Arbor, Mich..... .....May 2
May 9.Macadam, etc., Towson, Md............May 2
May 9.Highway, Jefferson, Ohio ....Apr. 25
May 9.Roads, Winchester, Ind................Apr. 25
May 10.Grading, etc., Columbus, Ohio..........Apr. 25
May 10.Improving pike, Cincinnati, Ohio......Apr. 25
May 10.Paving, etc., Louisville, Ky...........May 2
May 10.Paving, etc., Mansfield, Ohio..........May 2
Advertised, Eng. News, May 2.
May 10.Paving, etc., La Crosse, Wis..........May 2
May 11.Grading, etc., Terre Haute, Ind.........Apr. 25
May 11.Paving, Peru, Ind......................Apr. 25
May 14.Paving,etc., Crookston, Minn..........May 2
May 15.Grading, etc., New York, N. Y.........May 2
May 15.Roads grading, Hawaii ....Apr. 25
May 15.Paving sewers, etc., Natchez, Miss....Apr. 18
Advertised, Eng. News, Apr. 18 to May 9.
May 18.Walks Ft. Benj. Harrison, Ind.........Apr. 25
May 21.Paving, Bridgeport, Conn.... ....May 2
Advertised, Eng. News, May 2-9.
May 21.Highway, Norwalk, Ohio.... ....May 2
May 22.Highway, Mansfield, Ohio...... ....May 2
May 23.Roads, Cape May, N. J................May 2
Advertised, Eng. News, May 2-16.
May 16.Paving, etc., Bluefield, W. Va.........Apr. 18
Advertised, Eng. News, Apr. 18 to May 2.
May 27.Curb, etc., Albert Lea, Minn...........May 2
June 1.Macadam, Ft. Hancock, N. J..........May 2
Advertised, Eng. News, May 2-23.

MISCELLANEOUS CONTRACTS.

May 2.Rip-rap, Wilmington, N. C.............Apr. 4
May 2.Dredging, Des Moines, Iowa ....Mar. 14
May 3.Crematory, Salt Lake City, Utah........Apr. 25
Advertised, Eng. News, Apr. 25.
May 4.River channel, Utica, N. Y............May 2
May 4.Dredging, Wilmington, Del............May 2
May 6.Electric railroad, Sykesville, Md........May 2
May 6.Railway supplies, Panama ....May 2
May 6.Dredging, Ottawa, Ont.................May 2
May 6.Public bath, Albany, N. Y.............Apr. 18
May 7.Refuse destructor, New York, N. Y....Apr. 18
Advertised, Eng. News, Apr. 18 and 25.
May 7.Wireless sets, generating sets, New York,Apr. 11
May 7.Locomotive cranes, Panama ....Apr. 25
May 7.Naval supplies, Washington, D. C......May 2
May 8.Piles, Vancouver, B. C.................May 2
May 8.Wharf, San Luis Obispo, Cal...........May 2
May 8.Dredging, Wilmington, Del...........Apr. 25
Advertised, Eng. News Apr. 25 and May 2.
May 8.Ditch, Des Moines, Iowa ....Apr. 25
May 8.Excavation, Boston, Mass.............Apr. 11
Advertised, Eng. News, Apr. 11 to May 2.
May 8.Jetty, Nantucket, Mass...............Apr. 18
Advertised, Eng. News, Apr. 18 to May 2.
May 10.Post fence, Prescott, Ariz.............Apr. 18
May 10.Cement, Winnipeg, Man...... ....May 2
May 10.Double tracking, Intercolonial Ry......May 2
May 13.Steam vessel repairs, New York, N. Y...May 2
May 13.Cement, New York, N. Y..............May 2
May 13.Dredging, New York, N. Y............May 2
May 14.Wharf, New Orleans, La...............May 2
May 11.Levee, Vicksburg, Miss...............Apr. 25
May 14.Subway, New York, N. Y.............Apr. 25
May 15.Dredging, Albany, Ill..................Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.
May 15.Drainage tunnel, Cripple Creek, Colo...Apr. 25
Advertised, Eng. News, Mar. 28.
May 15.Marine boiler, Cleveland, Ohio.........Apr. 25
May 15.Subways, Washington, D. C...........Apr. 18
Advertised, Eng. News, Apr. 18 to May 2.
May 15.Dump scows, Cincinnati, Ohio ....Apr. 25
Advertised, Eng. News, Apr. 25 to May 9.
May 18.Breakwater superstructure, Buffalo, N. Y.Apr. 25
Advertised, Eng. News, Apr. 25 to May 16.
May 20.Iron, steel, etc., Watertown, Mass.......May 2
May 20.Fire system, Washington, D. C..........May 2
May 21.Engineering supplies, Tompkinsville, N.Y.May 2
May 21.Riprap, New Haven, Conn.............Apr. 25
Advertised, Eng. News, Apr. 25 to May 16.
May 21.Light-house supplies, Tompkinsville, N.Y.Apr. 25
Advertised, Eng. News, Apr. 25 to May 16.
May 22.Dredging, New London, Conn...........Apr. 25
Advertised, Eng. News, Apr. 25 to May 16.
May 22.Pier, breakwater, Erie, Pa.............May 2
May 22.Railway Cairo & Thebes................May 2
Advertised, Eng. News, May 2-16.
May 22.Headstones, Boston, Mass...... ....May 2
May 24.Levee bldg. machine, New Orleans, La..May 2
Advertised, Eng. News, May 2-16.
May 25.Dredging, Boston, Mass................May 2
May 27.Dredging, New York, N. Y.............May 2
Advertised, Eng. News, May 2 to May 23.
May 27.Pier superstructure, Harbor Beach, Mich.Apr. 25
Advertised, Eng. News, Apr. 25 to May 16.
May 31.Dredging, Tarrytown, N. Y.............May 2
Advertised, Eng. News, May 2 to May 23.
June 1.Harbor excavation, Buffalo, N. Y........May 2
Advertised, Eng. News, May 2 to May 23.
June 7.Dredge, Philadelphia, Pa................May 2
Advertised, Eng. News, May 2 to May 23.
June 15.Dredging, Hawaii ....Apr. 25
July 1.Tunnel, New Zealand (Foreign)........Sept. 13
Advertised, Eng. News, Sept. 13 to Mar. 14.
Sept. 2.Competitive plans for wharf, etc., Sweden (Foreign) ....May 2

CIVIL SERVICE EXAMINATIONS.

May 8.Asst. Chemist, Washington, D. C.......Apr. 18
May 8.Asst. Physicist, Washington, D. C......Apr. 18
May 8.Ch. Engr., Chicago, Ill..................Apr. 18
May 8.Assistant Engr., New York, N. Y......Mar. 21
May 9.Laboratory Helper, Washington, D. C..Apr. 18
May 15.Asst. Physiologist, Washington, D. C....Apr. 25
May 15.Electrical draftsman, North Chicago, Ill.May 2
May 15.Plant Pathologist, Washington, D. C....Apr. 25
May 15.Aids, Washington, D. C................May 2
May 15.Farrier, Ft. Riley, Kan................May 2
May 27.Stationary Engineer, New York, N. Y..May 2
May 29.Topograph Draftsman, New York, N. Y.Mar. 21
June 4.Asst. Engineer, New York, N. Y........Apr. 4

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ABITIBI & HUDSON BAY.—A bill to incorporate this company has been reported by the Railway Committee of Parliament and passed. The bill provides for a line from a point on the National Trans-continental (Grand Trunk Pacific) East division between Frederick House River and Abitibi Lake, Ont., to a point on James Bay and East Main River, about 200 miles. The capital of the company is to be $2,000,000. The provincial directors include T. G. Brigham and H. Fisher, of Ottawa, Ont., and John Aylen, of North Bay, Ont.

ANTOINE VALLEY.—Company has applied for charter to build a line from Graysonia to Arkadelphia, 27 miles. Capital, $150,000. The directors are W. Grayson, N. W. McLeod, J. S. Cargile, G. M. Grayson and I. M. Seller, of Arkadelphia, Ark.

APPOMATTOX & CHARLOTTE.—B. P. Eggleston, Pres., Charlotte Court-House, Va., informs us that survey is partly completed for this line, which is to extend from Drakes Branch, Va., to West Appomattox, 40 miles. Negotiations are being made for necessary capital. Right-of-way is partly secured. Company is not ready to let contracts for construction.

BELLINGHAM BAY & BRITISH COLUMBIA.—The Bellingham (Wash.) "American" states that "within a year the Bellingham Bay & British Columbia Railway will spend at least $50,000 on its line between Bellingham and Maple Falls. This expenditure will cover the repairing of the sections of the main line, constructions of sidings at Sumas and extensions and yard trackage at Kendall, where the Northwestern Portland Cement Co. will build a cement factory." H. B. Page is Supt., Bellingham.

BESSEMER & LAKE ERIE.—Officials of the Bessemer & Lake Erie have authorized the expenditure of $100,000 for the construction of additional tracks near Greenville, Pa. The total amount appropriated for track and shop improvements this year is $1,000,000. This work includes only improvement to tracks and shops that are absolutely necessary, and none of the expenditures so far will be used for special work. Plans have been prepared for considerable new work between Pittsburg and the Lakes, and it is generally expected that this work will be taken up shortly, although this company was one of the local lines that issued orders to curtail improvement work as far as possible for the present.

BROKEN BOW & WESTERN.—We are officially advised that A. J. Van Antwerp & Son, of Broken Bow, Neb., are Engrs. for this railway. The line will be built from Loup City to Broken Bow, 50 miles, this year, but will be extended ultimately from both ends of the line. Right-of-way is partly secured. Contracts will be let about July 1. Stillman P. Groat is Pres., Broken Bow. Noted on April 4.

BUFFALO, ROCHESTER & EASTON.—This company has been incorporated to build and operate a standard-gage railroad by steam, electricity or gasoline from Buffalo to Rochester and thence to Troy, a distance of 300 miles. The principal office of the road is to be located in Rochester and the line is to pass through the counties of Erie, Genessee, Olean, Monroe, Wayne, Cayuga, Onondaga, Madison, Oneida, Herkimer, Montgomery, Schoharie, Schenectady, Albany and Rensselaer. The capital stock is [illegible],500,000. The directors are Ralph G. Gillett, Henry W. Ely and Arthur D. Robinson, of Westfield, Mass.; Arthur W. Easton, of Pittsfield; Franklin Weston, of Dalton; Henry W. Bowman and Fred T. Levy, of Springfield; Joseph O. Skinner, of Holyoke; John J. Whipple, of Brockton, and James F. Sharpe, of Manchester, all in Massachusetts, and Joseph H. Caldwell, of Troy, N. Y.

CAIRO & THEBES.—Bids are asked until 10 a. m., May 22, by J. L. Armstrong, Ch. Engr., Cairo, Ill., for construction of five miles of roadbed, bridging, concrete, etc., between Thebes bridge and the C. & E. I. R. R. crossing. E. A. Smith, Pres. (Advertised, Engineering News.)

CHANDLER & SHAWNEE.—We are officially advised that construction contracts will be awarded immediately after constitution is voted on Aug. 6. This company has been chartered in Oklahoma, with headquarters at Chandler, to build from that city, south through Lincoln County into Pottawatomie County, to Shawnee. Estimated length, 30 miles. The incorporators are W. R. Gulick, Frank S. Dimon, J. F. Collar, George B. Rittenhouse, M. D. Owen, F. B. Hoyt, H. B. Gilstrap, Wm. Schlegel and H. G. Etettmun, all of Chandler.

CORTLAND & AUBURN—Walter Loring Webb, Ch. Engr., 2222 Land Title Bldg., Philadelphia, Pa., advises us that this company has now been granted a certificate of incorporation by the New York State Railroad Commission. The final surveys will soon be completed and contracts for construction will be let very shortly. It will extend from Cortland to Auburn, 36 miles. The officers are Benj. L. Webb, Pres.; N. A. Bundy, Vice-Pres. and Gen. Mgr.; Eliot L. Stone, Treas.; W. D. Tisdale, Secy.

ELKIN & ALLEGHANY—This company has been chartered at Elkin, N. C., with a capital of $125,000, with privilege of increasing to $3,000,000. H. G. Chatham, R. A. Doughton, A. G. Click, G. T. Roth, A. M. Smith, E. F. McNair, R. M. Chatham, C. L. Smoot, A. H. Eller, H. E. Fries, C. M. Smith, E. F. Fields, J. F. Hendren and W. J. Boyles are the directors. The officers elected are as follows: Pres., H. G. Chatham, of Elkin; First Vice-Pres., C. L. Smoot, of North Wilkesboro; Second Vice-Pres., H. E. Fries, of Winston-Salem; Secy. and Treas. A. G. Click, of Elkin. The railroad will extend from Elkin to Sparta, a distance of from 35 to 40 miles. Later the line may be extended in either or both directions and it is not improbable that it may become a connecting line of one or more trunk lines through the mountains. It will connect with the Northwestern North Carolina road at Elkin. This will be the first line to Alleghany, Watauga and Ashe Counties, which constitute a rich and resourceful section.

GRAND TRUNK.—It is stated that $175,000 will be spent for a new electric block system to be installed between Niagara Falls and Toronto, Ont.

GREENSBORO, SEABOARD & GREAT WESTERN—C. A. Bray, of Greensboro, N. C., announces that this company has only been chartered and is not yet organized. The incorporators are N. W. Thompson, C. H. Ireland, R. H. Brooks, J. Allen Holt, C. M. Vanstory, J. W. Fry, A. M. Scales, C. A. Bray, J. E. Brooks, R. H. Vaughn, J. R. Gordon, W. E. Allen, E. J. Justice, J. R. Hughes and C. D. Benbow. Noted on April 11.

GULF, COLORADO & SANTA FE.—Both houses of the Texas Legislature have passed, over the veto of the Governor, the bill authorizing the consolidation with the Gulf, Colorado & Santa Fe, by purchase or lease, of the Texas & Gulf, operating 70 miles of road, from Longview, Tex., southeasterly to Waterman. The original bill also authorized the consolidation with the first-named company of the Gulf & Interstate, Gulf, Beaumont & Kansas City and Gulf, Beaumont & Great Northern railways—already controlled by the Atchison, Topeka & Santa Fe through stock ownership—which together form a line 211 miles long from Bolivar Point, opposite Galveston, to Center, from which latter point the construction of 14 miles would connect with the Texas & Gulf; but the bill as passed covers only the Texas & Gulf. The purchase of the Gulf, Beaumont & Great Northern and the Gulf, Beaumont & Kansas City companies by the Gulf, Colorado & Santa Fe, however, had been sanctioned previously. The act now passed authorizes the Gulf Company to purchase or lease, or purchase the capital stock of the Texas & Gulf and guarantee the bonds of the Texas & Gulf hereafter issued. It is provided that the present mortgage indebtedness of the Gulf Company shall not be a lien on the Texas & Gulf and the mortgage indebtedness of neither company shall be increased without approval of the railroad commission. The act requires the construction within three years of the line from Longview to Red River, and connection of the Texas & Gulf with the Gulf, Beaumont & Great Northern, already owned by the Gulf Company. The Governor's veto message denounced the control by the Atchison, Topeka & Santa Fe of the Gulf, Colorado & Santa Fe and other roads in Texas as gross violation and bold defiance of the constitution of Texas, and declared that the proposed consolidation, connection and extension of the roads named would form a line from Paris to Galveston parallel to the existing route of the Gulf, Colorado & Santa Fe—although the first would run through the extreme eastern part of Texas, while the present route swings some 200 miles to the west and is considerably longer than the new route suggested. The consolidation bill had been passed in response to petitions from the people of eastern Texas, who desired the connection of the separate roads into one. The Senate passed the bill over the Governor's veto by vote of 21 to 10—one more than the necessary two-thirds—and the final vote in the House gave it 88 out of 127, or three more than the requisite two-thirds. A previous ballot in the House had sustained the veto by the bare margin of one-third of a vote, but the action was reconsidered upon motion of a member who changed his vote on the ground that while he was opposed to railway mergers, this consolidation was demanded by the needs of 60,000 people of eastern Texas.

HOUSTON & BRAZOS VALLEY.—D. T. Bomar, Pres., Fort Worth, Tex., states that the Houston & Brazos Valley Railway Co. has acquired 20.2 miles of railroad from the Velasco, Brazos & Northern Railway Co., and it is to be extended northward up Oyster Creek to the Santa Fe Railway, and probably will be extended further, to Brookshire, Tex., on the Missouri, Kansas & Texas Railway. The directors are Morgan Jones, Chn. of the Board, of Ft. Worth, Tex.; Felix Jackson, Vice-Pres. and Gen. Mgr., Brownwood, Tex.; Ed. S. Hughes, Secy. and Treasurer, Abilene, Tex.; J. B. Wilson, William Thompson, both of Dallas, Tex.; T. W. House, Houston, Tex.; Bassett Blakely, Sandy Point, Tex.; E. D. Dorchester, Velasco, Tex. See issue of April 11.

INTERCOLONIAL.—Bids are asked by D. Pottinger, Gen. Mgr., Moncton, N. B., and marked on the outside "tender for double-tracking," until May 10, for the work in connection with the double-tracking of the existing main line between Moncton and Painsec Junction, N. B.

NATCHITOCHES EAST & WEST.—C. H. Teal, Pres., Colfax, La., states that the line will be about 40 miles long. L. Casparie is Vice-Pres., J. H. Williams, Treas., and John A. Barlow, Secy. The work will be let to a construction company and bonds will be sold.

NEW YORK CENTRAL & HUDSON RIVER.—Contract for the work of eliminating the grade crossing on the Wolf Hill road, New Scotland, N. Y., will be awarded by this company shortly. The crossing is located on the West Shore road, and the plans have been approved by the State Railroad Commissioners and the town authorities. The structure to be erected will carry four tracks. The estimated cost of the work is $15,000. R. T. Horton, Resident Engr. of the New York Central Railroad, Albany, N. Y., will have charge of the work.

PANHANDLE SHORT LINE.—J. H. Ranson, Pres. and Gen. Mgr., Hereford, Tex., states that this road will be 210 miles long, extending from Hereford to Stanton, Tex., and that surveys have been made from Hereford to La Mesa, 160 miles. Contracts for the grading and equipment are to be let soon. J. S. McClearey is Ch. Engr., Hereford, Tex. Noted on April 11.

PITTSBURG, BINGHAMTON & EASTERN.—Thomas H. Watkins, of Scranton, Pa., has been elected President to succeed F. A. Sawyer, resigned. It is denied that grading has been suspended on the road, which is projected from Binghamton, N. Y., to Clearfield, Pa. According to press dispatches, 2,000 men are now at work on the line. Noted last week.

SOUTH & WESTERN.—W. J. OLIVER & CO., of Knoxville, Tenn., have received the contract for building 30 miles of road from Altapass to Macon, N. C. This is on the extension from Altapass to Bostic, 62 miles. W. A. Doane is Principal Asst. Engr., Johnson City, Tenn.

TENNESSEE & NORTH CAROLINA.—This company plans to build an extension from Waterville to Canton, N. C., 40 miles. Surveys are made and right-of-way is secured. J. B. Hart is Pres., Clarksburg, W. Va.; B. D. Britt is Ch. Engr., Newport, Tenn.

TEXAS.—The State Penitentiary Board has been authorized to borrow $150,000 from the State, to extend the short railroad now owned by the State. The road is to be extended from its eastern terminus at Rusk east to a connection with the Texas & New Orleans, and from its western end to a connection with the International & Great Northern. The line, when these improvements are made, will have a total length of about 58 miles. Noted on March 28.

WESTERN MARYLAND.—The Western Maryland Railroad Co. has completed the surveys in connection with the line which it proposes to build between Cumberland and Wheeling to connect with the Wheeling and Erie extension, according to the New York "Tribune." The route surveyed is about 150 miles long. It is understood to be the intention of the company ultimately to build a link between Uniontown and Pittsburg, to shorten the distance between Cumberland and Pittsburg over the Gould lines. J. W. Galbreath is Prin. Asst. Engr., Baltimore, Md.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

RUMFORD FALLS, ME.—The Rumford Falls & Bethel St. Ry. Co. has petitioned the State Railway Commissioners for approval of the location of its line. It will connect Mexico, Rumford, Hanover, Newry and Bethel, 30 miles. The directors are Elliott W. Howe, Oville J. Gonya, Everett K. Day, William H. Rae and Dennis J. McCoy, of Rumford Falls.

WESTPORT, N. Y.—The Lake Champlain & Lake Placid Traction Co. has been incorporated in New York, with $1,500,000 capital and with office at Ausable Forks, to build an electric line from Westport west to Lake Placid; also north to Ausable Forks, about 50 miles. The directors include: Albert L. Washburn, Norman C. Spencer, Wilbur T. Halliday, Elizur S. Goodrich and Henry F. Smith, of Hartford, Conn.; George S. Raley, William L. Kiley and Thomas D. Trumbull, of Glens Falls, and Richard L. Trumbull, of Ausable Forks.

NEW CASTLE, PA.—G. B. Zahniser, Ch. Engr. of the New Castle-New Wilmington St. Ry. Co., Clendenin Bldg., New Castle, informs us that surveys are made and private right-of-way secured for its proposed line between the cities named in its title, a distance of ten miles. Contracts for construction probably will be let this summer. Capital is partly obtained. Noted on April 11.

ELIZABETH, PA.—The Mentor St. Ry. Co. has been chartered with a capital stock of $60,000 to build a 10-mile line from West Elizabeth bridge, in Elizabeth, Allegheny County, along Fallen Timber Run and Togo Run to Webster, Pa. The line will traverse Plum, Third and Market Sts., in Elizabeth. The directors are: Derr B. Neagley, 208 Belva Ave., Avalon, Pres.; E. L. Kern, J. K. Neagley, Geo. M. Kain, N. F. Bicking, 408 Kenwood St., all of Pittsburg. The company is chartered for 999 years.

COLUMBIA, PA.—Directors of the Columbia & Manor Electric Ry. were recently elected as follows: Henry Wertz, Pres., Washington Boro; H. M. Herr, Fred. Shoff, Lancaster; Joseph K. Shultz, Washington Boro; Jacob Lindeman, E. K. Hershey, Creswell; William M. Morris, Columbia; H. M. Kauffman, D. H. Landis, Windom. Mr. Herr is Vice-Pres.; Mr. Hershey, Secy.-Treas., and E. M. Gilbert, Solicitor. All right-of-way has been purchased from Millersville to Columbia, including that on the Washington and Columbia Pike. Surveys are now in progress. Blank applications for stock are now ready and books will be closed June 1. The capital stock is $225,000. Work on the new road will be started as soon as possible after the survey is completed. The company has received a bid to build the road complete, ready for the cars to be run on it, but no action has been taken. Power probably will be secured from either the McCall's Ferry or New Haven plants, an offer having been received from each. From the terminal at Columbia the line will run direct west, crossing the Little Conestoga Creek. It will pass through Windom to Central Manor, thence to Washington Boro and along the pike to Columbia. A branch will run from Central Manor, by way of Spring Valley, to Creswell and Highville. The entire road will be twelve miles long.

PITTSBURG, PA.—The Governor has granted a charter to the West End Tunnel Co., capital $10,000, to build a subway from a point on the south side of West Carson St., Pittsburg, 1,625 ft. eastwardly from Main St., to the north side of Wabash Ave., 177 ft. west of Love St. The subway is to be 24 ft. wide at the base and 20 ft. high. The charter is for 999 years. The directors are: John Moren, 108 Meridian St., Pres.; Henry Feuchtwanger, and W. H. Locke. It is reported that the capital stock is to be largely increased in the near future.

SYKESVILLE, MD.—Bids are asked until noon, May 6, for building the proposed railroad from Sykesville to the Springfield State Hospital, two miles. Gov [illegible] n Warfield is Pres. of the Board of [illegible] ers, Fidelity Bldg., Baltimore, and D. [illegible] nks is Engr., 306 American Bldg., Bal [illegible] Noted on March 28.

NORFOLK, VA.—The [illegible] k & Portsmouth Belt Line Ry. Co. [illegible] officially accepted the city's offer of $[illegible] appropriated to have the belt line exten [illegible] tracks across the Elizabeth River into [illegible] k, upon the condition that the city [illegible] a modified ordinance covering the sub [illegible] which the belt line offers in lieu of certa [illegible] trictions and requirements in the origin [illegible] nance. Geo. S. Shafer is Supt., Port [illegible] Va.

ADEL, GA.—The Town C [illegible] has granted Wm. Scandrett, J. Z. Jack [illegible] J. Parrish, Jr., and others a franchise [illegible] the purpose of building an interurban [illegible] railway system in Adel. It is unders [illegible] that the preliminary work is being pu [illegible] s rapidly as possible and that articles of [illegible] poration will be filed in a few days.

INDIANAPOLIS, IND.—T [illegible] Chicago, Indianapolis & Terre Haute [illegible] tric Railway has filed articles of incor [illegible] on with the Secretary of State. The ca [illegible] l stock is $50,000. The company prop [illegible] to build an interurban line to connect G [illegible] Rensselaer, Lafayette, Terre Haute, Bai [illegible] dge, Covington, Danville, Rockville, Sh [illegible] d, Williamsport and Indianapolis. The [illegible] omoters and directors are Daniel W. B [illegible] n, Chas. M. Killer, F. M. Strong, R. F. [illegible] wart and Simeon Lofton.

FRANKFORT, IND.—The [illegible] nkfort, Delphi & Northern Traction [illegible] has been granted a 35-year franchise t [illegible] onstruct and operate an interurban line th [illegible] gh this city. The road must be completed b [illegible] Jan. 1, 190[illegible]. W. H. Cohee, 708 East Pratt [illegible], Indianapolis, is reported to be interest [illegible]. The right-of-way is secured. It is annou [illegible] d that work will begin May 1.

DETROIT, MICH.—Otto Bu [illegible], Secy. of the Detroit, Saginaw & Grand [illegible] pids Ry Co., Maple Rapids, Mich., advises us that right-of-way is partly obtained for its proposed line which will run northwest from Detroit to Milford, Bancroft, Corunna, Owosso, Westhaven, Elsie, Maple Rapids, Belding and Grand Rapids, passing through other smaller towns. From Westhaven a branch will run to New Lothrop and Saginaw. It will be about 200 miles in length. Surveys are under way and nearing completion. The officers are: Pres., E. P. Sherman, Bancroft, Mich.; First Vice-Pres., J. S. Smart, Saginaw; Second Vice-Pres., Isaac Hewitt, Maple Rapids; Treas., T. T. Newton, Maple Rapids; Farnham Bros., Engrs., Ithaca, Mich.

MURPHYSBORO, ILL.—The Southern Illinois Traction Co., which has located an interurban electric railway from Murphysboro through the coal belt, touching Carbondale, Herrin and Johnson City, has awarded the contract for building the line between Herrin and Johnson City to McCANN BROS., of Herrin, Ill. Work will begin at once.

DUQUOIN, ILL.—Announcement is made from the general offices of the Duquoin, Belleville and St. Louis Electric Ry. Co., in this city, that all preliminary details pertaining to the construction of the interurban line from Ziegler to Belleville and St. Louis via Benton and Duquoin had been completed. Bonds to the amount of $2,000,000 have been issued and placed with the Carnegie Trust Co., of New York. The newly elected officers of the company are: Pres., William R. Hayes; Vice-Pres., Thomas H. Davison; Secy., Thomas J. Howell; Treas., Harry E. Ross; Gen. Mgr., J. Henry Ward, all of this city. The line was projected nearly a year ago by the present promoters, and work on the preliminary details has been in progress since. The original survey of the interurban is from Zeigler to Benton through Franklin County to Duquoin. From this city the line will extend in a northwesterly direction, traversing the counties of Perry, Randolph, Washington and St. Clair. At Belleville connections will be made with the St. Louis & Suburban Ry. for St. Louis.

EDWARDSVILLE, ILL. — The Tri-City Traction Co. has been incorporated by the Illinois Traction System (the McKinley System), with headquarters at Champaign, Ill. The capital stock is $1,000,000. The road is to be constructed from Edwardsville, Madison County, to a point on the Mississippi River near Venice, where the bridge across the river is to be built, and from Granite City to East St. Louis. The incorporators and first board of directors are Charles Seilly, B. E. Bramley, C. A. Wright, R. H. Watson, Jr., and George M. Mattis, all of Champaign. See item under St. Louis, Mo., in issue of April 18.

SPRINGFIELD, ILL.—The Peoria, Lincoln & Springfield Traction Co. has been incorporated as a branch of the McKinley System, and will connect Springfield with Chicago in the same manner in which it is now connected with East St. Louis. The new line is to extend from Lincoln, in Logan County, to Mackinaw, in Tazewell County. The capital stock is $400,000. Office of the company is at Champaign. The incorporators and first board of directors are Charles Zilly, W. H. Burke, B. E. Bramble, G. A. Wright and George M. Mattis. See "Edwardsville, Ill.," above.

CARLYLE, ILL.—The Carlyle & St. Louis Ry. Co. has been incorporated in Illinois to build an electric railway from Carlyle to Lebanon, 125 miles. It will be an extension of the East St. Louis & Suburban, which is now in operation from East St. Louis to Lebanon. Capital stock, $5,000. Incorporators: Thomas E. Ford, Carlyle, Ill.; J. C. Eisenmeyer, Trenton, Ill.; B. H. Hi [illegible] ann, Aviston, Ill., and A. J. Kluthe and Henry Humert, of Breeze, Ill.

KANSAS CITY, MO.—The Blue Valley Ry. Co. has been chartered to build an electric line two miles long from a connection with the Swope Park line at 50th St. and thence eastward across the Blue River and south toward Swope Park. The incorporators are Alexander Massey, Edwin L. Brown, Joseph S. Chick, Jr., Dwight Bldg.; Willard E. Winner and John Georgen, Bryant Bldg., all of Kansas City.

JEFFERSON CITY, MO.—The Missouri Interurban Ry. Co. has awarded a contract for construction of its line to the BELL CONSTRUCTION CO., of Indianapolis, Ind. We are officially informed that capital is now being subscribed. The line will connect Jefferson City with Sedalia, and will be about 75 miles long. J. D. Starke is Pres., at Jefferson City. B. H. Colby, Security Bldg., St. Louis, is Ch. Engr. Right-of-way has been obtained and surveys have been run. C. W. Thomas is Secy., Jefferson City. Noted on March 1[illegible].

LITTLE ROCK, ARK.—We are officially advised that the ELECTRICAL INSTALLATION CO., Monadnock Block, Chicago, has contract for building the Little Rock & Hot Springs Electric Ry. There will be several steel bridges. The line will connect Hot Springs and Little Rock, Ark., and will be about 56 miles in length. Surveys have been made and right-of-way practically obtained. Capital for construction is three-quarters secured and remainder is being secured in Little Rock with preferred stock. C. J. Kramer is Pres. and J. R. Van Franks is Ch. Engr.; P. M. Pierce is Elec. Engr., at 321½ Main St., Little Rock.

DENTON, TEX.—The Denton Interurban Railway & Power Plant Co., capital $100,000, has been incorporated by H. M. Griffith, W. W. Wilson, R. J. Wilson, and Newt M. Lee. C. M. Simmons, Treas. of the Denton Gas Co., states that those interested have a charter for an interurban railway and are now building it. The officers, besides Mr. Simmons, are H. M. Griffin, Pres.; R. J. Wilson, Vice-Pres.; Newt M. Lee, Mgr. and Engr.-in-Charge.

HOUSTON, TEX.—The Galveston & Houston Electric Ry. Co., capital stock $3,000,000, has filed its charter to build the proposed electric railway from Houston to Galveston, 51 miles. Stone & Webster, 84 State St., Boston, Mass., are the principal stockholders. Headquarters are at Houston. The directors are M. M. Phinney, Dallas; David Daly, C. W. Wharton, W. B. Chew, Jesse H. Jones, William A. Wilson and James A. Baker, Jr., all of Houston. J. Goodenough has charge of construction for Stone & Webster.

VANCOUVER, WASH.—We are officially informed that contracts will be let soon by the Washington Railway & Power Co. for its line in this city and suburbs, covering a distance of six miles. Right-of-way is secured and surveys have been made. Capital for construction is partly obtained. W. H. Moore is Pres., Oregon Trust & Savings Bank Bldg.; Fred A. Ballin is Ch. Engr., 43½ Second St., and Arthur Langguth is Secy., 606 McKay Bldg., all of Portland, Ore. As noted on April 4, the company "has secured franchises from the city of Vancouver for an electric railway to run on the principal streets of that city, and will soon be ready to take up the matter of construction of same. It is part of that company's plans to push out into the very populous country lying around Vancouver. The track will be standard-gage and built to admit of heavy interurban traffic."

MODESTO, CAL.—The Board of Supervisors of Stanislaus County has granted a franchise to W. A. Irwin to construct and operate a street railway over certain streets in Turlock and certain portions of the county road from Turlock to the Merced County line.

BOISE, IDAHO.—I. W. Anderson, Vice-Pres. of the Boise Traction Co., Spokane, Wash., states that it is the intention of the company to rebuild its entire line as soon as operations can be started to advantage. Company operates about nine miles of line. Chas. A. Hutchinson is Mgr. and Pur. Agt., at Boise.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

WESTBROOK, ME.—The Westbrook Electric Light & Power Co. will construct a complete power plant this season to replace power stations Nos. 1 and 2, now in operation on the Presumpscot River. The power plant will be located in the southwest channel of the river near the present No. 1 station, and when complete will cover a length of about 900 ft., beginning at the upper island and extending down stream to a point opposite the old grist mill. This plant will consist of an intake channel, intake dam, fore bay, power house and tail race, the entire construction of which will be granite or other masonry, founded directly on the bed rock. The power house equipment consists of three pairs of 36-in. special horizontal Hercules turbines running 200 r. p. m. under 28 ft. head, using 314 cu. ft. of water a second and developing 844 HP. per pair. The foundations will be of cement concrete, the walls of red brick with pressed and moulded brick trimmings and the floors and roof will be reinforced cement concrete. The main items of construction of the above described power plant are approximately as follows: 9,000 cu. yds. earth excavation, 13,500 cu. yds. ledge excavation, 3,400 cu. yds. rubble masonry, 1,600 cu. yds. cement concrete, 200 cu. yds. reinforced cement concrete, 334,000 brick, 100,000 lbs. structural steel. Contracts for the above work have been placed as follows:

Ledge and earth excavation, masonry, coffer dams and pumping, to L. N. FARNHAM & Co., Boston, Mass.; electrical equipment, the WESTINGHOUSE ELECTRIC & MFG. CO., Westinghouse Bldg., Pittsburg, Pa., and the turbines and other hydraulic equipment, the HOLYOKE MACHINE CO., 81 Thomas St., Worcester, Mass. Contracts for structural steel, roofing, plumbing, bridge work, etc., are not yet placed. It is the intention of the owners to have the work completed and the plant in operation not later than Nov. 1. W. B. Bragdon, Cumberland Mills, Me., is Gen. Mgr.

PORTSMOUTH, N. H.—Bids are asked until 11 a. m., June 1, at the Bureau of Yards & Docks, Navy Dept., Washington, D. C., for furnishing economizers, fans, engines, flues, etc., for the power plant at the U. S. Navy Yard, Portsmouth. Specifications are on file at the office of Engineering News, New York. R. C. Hollyday is Ch. of Bureau.

PORTSMOUTH, N. H.—The contract for installing the generator set of reciprocating engine at the Portsmouth Navy Yard, has been let to the WESTINGHOUSE ELECTRIC & MFG. CO., Westinghouse Bldg., Pittsburg, Pa., by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., at $52,182.

LOWELL, MASS.—The contract for the new power plant of the Hamilton Mfg. Co. has been let to the engineers in charge, WESTINGHOUSE, CHURCH, KERR & CO., 10 Bridge St., New York.

TORRINGTON, CONN.—The Torrington Electric Light Co. is contemplating increasing the capacity of its plant and will install new generators. The system will be changed to 60 cycles, which will require new wiring throughout the borough. C. E. Smith, Torrington, is Mgr.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 1, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing two motor generator sets and accessories at the U. S. Navy Yard, New York. Specifications are on file at the office of Engineering News, New York. R. C. Hollyday is Ch. of Bureau.

LANESBORO, PA.—The Susquehanna County Electric Co. has decided to construct a power plant on the James Mill site at Lanesboro.

WILMINGTON, DEL.—Plans have been completed for the electric light and power plant to be installed at the Tenth St. waterworks pumping station. Theodore A. Leisen is Ch. Engr. Water Comrs.

WASHINGTON, D. C.—Bids are asked until 3 p. m., May 16, by James Knox Taylor, Superv. Arch., Washington, for restoring the duplicate and water supply mains in the sub-basement corridor trenches at the U. S. Treasury Building, Washington.

FREDERICKSBURG, VA.—The stockholders of the Fredericksburg Water Power Co. have purchased land on the Rappahannock River and also on the Rapidan River, from the point where it flows into the Rappahannock, and will build three large dams for storing the water to be used for power in generating electricity. Two of these dams will be built on the Rappahannock and one on the Rapidan. The company has established headquarters in this city, and the engineers are now at work on the project.

RICHMOND, VA.—The City Council has authorized the construction of a municipal electric light plant. W. E. Cutshaw is City Engr.

The Virginia Passenger & Power Co. has let contracts for the following equipment: ALLIS-CHALMERS CO., Milwaukee Wis., for a 3,250-KW. turbine; ALBERGER CONDENSER CO., 95 Liberty St., New York, for jet condenser for the above turbine; BABCOCK & WILCOX CO., 85 Liberty St., New York, for three 600-HP. boilers; POWER SPECIALTY CO., 111 Broadway, New York, for Foster superheaters for the above boilers; the GENERAL ELECTRIC CO., 44 Broad St., New York, for two 1,000-KW. motor generator sets and four 750-KW. transformers and switching apparatus for turbine, motor generators and transformers. S. W. Huff, Richmond, is Mgr.

DANVILLE, VA.—The CARR-MURRAY MFG. CO., Fort Wayne, Ind., has contract at $8,600 for exhausters, condensers, scrubbers and purifiers for new gas plant, being erected under the supervision of Frank Talbott, Supt. Water, Gas and Electric-light Dept., at a cost not exceeding $40,000.

RADFORD, VA.—The Radford Water Power Co. will erect a brick fireproof building in which it will install a 200-KW. motor-generator set, recently purchased from the Westinghouse Electric & Mfg. Co., Westinghouse Bldg., Pittsburg. It is estimated that improvements this year will cost about $25,000.

MORGANTOWN, W. VA.—The contracts for completion of central heating plant for buildings at West Virginia University have been awarded as follows: AMERICAN WARMING & VENTILATING CO., Pittsburg, Pa., at $25,000, for supplying all heating machinery, constructing tunnel, connecting pipes and fitting plant, besides building sewer from plant to river; ZEVELEY-CASTO CONSTRUCTION CO., at $11,440, for constructing the plant. The building will be completed by Sept. 15 and heating machinery installed by Oct. 1. F. L. Emory is Engr,; D. B. Purinton is Pres.

ELKINS, W. VA.—Elkins Electric Ry. Co. has had plans prepared for erection of power plant to supply power and lights in Elkins, expending about $100,000. The JEFFERSON LUMBER CO. has contract to furnish ties to be used in constructing proposed extension.

LAURENS, S. C.—The Reedy River Power Co. has awarded to C. R. WILLARD & CO., of Spartanburg, the contract to construct a dam across Reedy River and build a power house at Boyd's Mill, twelve miles west of the city. The Reedy River Power Co. was organized several months ago with a capital of $50,000 for the purpose of developing the water power at Boyd's Mill, a fine shoal, and about 100 acres of land have been acquired by the company. Work on the dam will commence at once. The contract calls for its completion by the middle of December. It is to be 30 ft. high and about 300 ft. in length with a spillway 280 ft., constructed on the latest methods of dam building. The minimum horse power will be 1,500, ordinary 3,000. Upon the completion of the dam and power house machinery will be installed for the purpose of generating and transmitting electricity to Laurens and other points in that section. N. B. Dial is Pres.

SPARTANBURG, S. C.—We are officially advised that A. B. Groce & Sons of this county will develop 2,000 HP. at Van Patton Shoal, Enoree River, for hydro-electric transmission. Ladshaw & Ladshaw are Engrs., Spartanburg.

ATLANTA, GA.—Bids are asked until May 6, for lighting the city for one year and for supplying power for commercial purposes for periods covering one, two, three and five years.

MACON, GA.—Bids were opened April 29, at the office of the Supervising Architect of the Treasury, Washington, D. C., for the installation of heating in the post-office and court house at Macon, Ga.: York Engineering Co., York, Pa., $10,323; Newport Heating, Plumbing & Tinning Co., Newport News, Va., $9,068; Hurley & Co., 392 Selby St., St. Paul, Minn., $8,628; C. H. Sanborn, Boston, Mass., $8,888; F. A. Clegg & Co., Louisville, Ky., $8,036; E. J. Erbelding, Augusta, Ga., $8,450.

TAMPA, FLA.—The Tampa Electric Light Co. has secured a franchise for an electric light plant. P. D. Knight is Vice-Pres.

ALBERTVILLE, ALA.—The Sand Mountain Electric Co., capital $50,000, has been chartered at Albertville, for the purpose of developing the water power of Short Creek and tributaries, to transmit power electrically to cities and towns within a radius of 50 miles, and to build and operate steam or electric railways from Gadsden to Scottsboro. The company has been granted in its charter the power to build a railroad with steam or electric power from Gadsden, via Alabama City, Attalla, Boaz, Albertville to Scottsboro, crossing or navigating the Tennessee River as a part of the proposed route. The incorporators of the company are Edgar O. McCord, Rena B. McCord, Leon C. McCord, G. M. E. Mann, W. E. Snead, J. B. Roberts and the Albertville Realty Co.

HOUMA, LA.—Charles H. Jenks, C. E., Fayette, Miss., has been engaged to prepare plans and specifications and to superintend construction of proposed electric light plant. Estimated cost, $20,000.

CHATTANOOGA, TENN.—The Chattanooga & Tennessee River Light & Power Co. will begin at once, it is reported, to construct proposed conduits.

ATHENS, OHIO.—The City Council has passed an ordinance authorizing the Board of Trustees of Public Affairs to expend $6,000 for improving and increasing the capacity of the municipal electric lighting plant. C. E. Merwin is Supt.

URBANA, OHIO.—The Board of Public Service has awarded contract to the URBANA LIGHT CO. for lighting the streets of the city for a term of ten years. The company agrees to furnish 100 lamps at $75 per year each. L. L. Luft is Mgr., Urbana.

GREENFIELD, IND.—R. SASKE has secured contract to re-equip the electric light plant here, at $27,500. R. R. Denny, Greenfield, is Supt.

FORT WAYNE, IND.—Bids are asked by the Board of Public Works until June 12 for construction of a municipal electric light plant to cost about $160,000. Plans and specifications for the installation of the plant are now ready.

CHICAGO, ILL.—Bids are asked until May 29 for installation of electrical apparatus in the Western Ave. transformer sub-station. E. B. Ellicott is City Electrician.

KAUKAUNA, WIS.—The Green Bay & Mississippi Canal Co. has decided to rebuild the lower half of the canal waterway and construct a power house at the foot of the canal. The additional power, it is reported, will be used by an electric interurban line about to be built into Kaukauna from Milwaukee.

SUPERIOR, WIS.—We are officially advised that the City of Superior contemplates building a municipal electric light and power plant of about 1,000 HP. capacity. Plans and specifications will be completed about May 20th. Victor Linley is Mayor. Owen Ford, Security Bldg., St. Louis, Mo., is Consult. and Superv. Engr.

REEDSVILLE, WIS.—Bids are asked by Charles Heim, Village Clerk, Reedsville, until 7.30 p. m., May 9, for one 45 KW. D. C. generator and switchboard, 31,548 ft. of copper wire, 10 arc lamps, two 30 HP. producer gas engines, one 60 HP. suction gas producer, one 300-gallon triplex pump, construction of two miles of pole line, together with shafting, friction clutch pulleys and floor stands. W. G. Kirchoffer is Consult. Engr., Madison, Wis.

DES MOINES, IOWA.—Bids are asked until May 14 by the Board of Public Works for lighting the public parks with naphtha incandescent lamps of not less than 60 c. p. each for the term of five months from May 15 to Oct. 15, 1907. W. W. Wise is Chn.

The managers of the Iowa State Fair grounds contemplate installing a new electric lighting plant at the grounds.

WADENA, MINN.—It is proposed to construct a new power station at Wadena for the municipal electric light plant. George S. Chrysler, Wadena, is Supt.

FERGUS FALLS, MINN.—Bids will be asked for in a few days by the Town Council for the construction of a concrete dam, a brick power house and a complete new outfit of electrical machinery. The cost is estimated at about $50,000. A new system of street lights is to be put in in connection with the other improvements.

EVANSTON, WYO.—The Evanston Electric Light Co. is contemplating installing a 150 KW. direct current unit, Corliss engine and two 125-volt machines for operating an Edison 3-wire system. George J. Mercer is Mgr., Evanston.

KALISPELL, MONT.—Plans are being prepared by the Flathead Valley Water Power Co. for improvements to the Big Fork Electric Power & Light Co., F. W. Tinkle, Kalispell, Mgr., to cost $50,000.

WORTHAM, TEX.—Wortham Fire & Light Co. will erect and equip buildings at cost of $10,000. W. F. Pittman is Arch. Building is to be of brick, 50 × 100 ft. The plant will have a capacity of 750 lights.

NEDERLAND, COLO.—The Hydraulic & Electrical Co., of Colorado Springs, has begun preparations for construction of an immense dam for a reservoir above Nederland. The company will first construct the reservoir about a mile above Nederland on the way to Eldora, which will cost nearly $250,000. The reservoir will hold over 550,000,000 cu. ft. of water. A sawmill is to be erected near Silver Lake, at the foot of Arapahoe Peak, to furnish the lumber for the dam. After this dam is completed the company purposes to build a still larger one near the Barker meadows, a mile and a half below Nederland, which will cost over $500,000. It is said 400 men will be employed on these two projects.

TISHOMINGO, IND. T. S. C. Treadwell and associates have located site for a dam, have had plans prepared for construction and will build plant for developing power to be transmitted by electricity.

ALBANY, ORE.—Walter Mackey proposes to erect a power house here with a capacity of 33,000 HP.

LEMOORE, CAL.—The Lemoore Ice & Power Co. has applied to the City Trustees for a franchise to construct and operate an electric and steam power plant in this city for a term of 50 yrs.

SONORA, CAL.—The Bourbon Mining Co. is contemplating installation of a small electric plant to furnish electricity for lighting and operating its mines.

OAKLAND, CAL.—Contract for street lighting has been awarded by the Board of Supervisors to the SUBURBAN ELECTRIC LIGHT CO. at $5 a lamp per month.

BERKELEY, CAL.—A power plant which is to be installed at the new Hotel Claremont will cost $125,000. There will be three engines with a combined capacity of 450 HP. These engines will be used for the electric lighting, steam heating, elevators, fire pumps and ice plant, laundry and other mechanical features of the building. M. P. Thye, 114 East Third St., Los Angeles, is Consult. Engr.

SALT LAKE CITY, UTAH.—The Secretary of the Interior has awarded contract to the GENERAL ELECTRIC CO., of Schenectady, N. Y., for furnishing electrical machinery for the power plant, Strawberry Valley Irrigation Project, Utah, at $26,119.

SHELBURNE, N. S.—Robert G. Hervey, Pres. of the Shelburne Electric Co., Shelburne, advises us that contract for equipping the plant of the company has been let to the CANADIAN GENERAL ELECTRIC CO., 81 St. Peter St., Montreal, Que. The plant is situated on the Roseway River, one mile north of Shelburne, and will furnish power for lighting and for manufacturing purposes in ship yards, boat works and lumber mills. C. L. Hervey, C. E., is Des. Engr.; John S. Hughes is Consult. Engr. Cost, $45,000.

LONDON, ONT.—The London St. Ry. Co. will commence work soon on additions to building and equipment of the power plant. Estimated cost, $50,000. C. B. King, London, is Mgr.

OTTAWA, ONT.—It is reported that the Ottawa Electric Ry. Co. has awarded contract to the CANADIAN WESTINGHOUSE CO., LTD., Sovereign Bank Bldg., Montreal, for an auxiliary steam plant. J. E. Hutcheson, Ottawa, is Mgr.

WINNIPEG, MAN.—Bids are asked until May 8 for supplying switch boards, feeder regulators and accessories, etc., for the electrical sub-station on May St., Winnipeg. M. Peterson is Secy. Board of Control, Winnipeg.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—The County Commissioners April 26 awarded contract for constructing Kernwood bridge to W. L. MILLER, 19 Milk St., Boston, Mass., at $107,843. G. F. Ashland is City Engr.

WATERTOWN, MASS.—The following bids were received April 26 for constructing Galen St. bridge and wing walls at Charles River: Jones & Meehan, 10 Tremont St., Boston, $29,445; T. Stuart & Son Co., Needham, Mass., $31,400; John Cashman, West Quincy, Mass., $34,700; T. H. Gill & Co., 88 Broad St., Boston, $34,640; Charles R. Gow Co., 79 Milk St., Boston, $34,500; McHale & Perkins, Boston, $35,159; Byrne Contracting Co., 53 State St., Boston, $36,000; Coleman Bros.; 15 Court Sq. Boston, $36,106; T. J. O'Connell, Dorchester, Mass., $37,000; Couglan & Shields Co., Boston, $40,000; Lawler Bros., Charleston, Mass., $41,891; W. A. Mortfeldt & Co., Boston, $42,891; Woodbury & Leighton Co., 166 Devonshire Arch, cor. Milk St., Boston, $43,500; A. B. Murdough, Watertown, Mass., $48,000; Simpson Bros. Corporation, 166 Devonshire St., Boston, $48,955; Austin Engineering & Construction Co., $55,213. Bids were received for furnishing cut granite as follows: McGinity & O'Hearn, $15,000; James Leahey & Palmer, $15,234; John Cashman, $15,500; Booth Bros., $16,000; Charles H. Gould, $16,600; Rockport Granite Co., $17,600; Pidgeon Hill Granite Co., $19,860; John Harrington, $21,138. Wilber F. Learned is Town Engr.

CANANDAIGUA, N. Y.—Bids are asked by Philip T. O'Keefe, Town Clk., until 9 a. m., May 20, for constructing concrete arch, 120 ft. long, with 10-ft. span, filling over same, and removing old bridge. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked by James W. Stevenson, Comr. of Bridges, until 2 p. m., May 13, for constructing steel and masonry approach in the Boro. of Manhattan of Blackwell's Island bridge over East River, between the Boros. of Manhattan and Queens.

BETHLEHEM, PA.—A bridge will be constructed over Lehigh River, 3,300 ft. long and 56 ft. wide, connecting Bethlehem and South Bethlehem. Cost, $500,000. William J. Fink is Boro. Secy.

CUMBERLAND, MD.—The City Council has let contract to the HORSEHEADS CONSTRUCTION CO., Horseheads, N. Y., for constructing bridge across Wills Creek, at $4,340.

WASHINGTON, D. C.—Bids were opened April 20 by the District Commissioners for construction of concrete-steel bridge on the line of Monroe St., extended, across tracks of the Baltimore & Ohio R. R. Co., Anacostia, D. C. Bids were received from: (a) James J. Overn, Washington; (b) Penn Bridge Co., Bond Bldg., Washington; (c) Cranford Paving Co., 26th and E Sts., N. W., Washington: Bridge complete: (a) $23,850; (b) $19,100; (c) $22,900. Piles in place: (a) 50 cts. per lin ft.; (b) 50 and 25 cts.; (c) 34.5 cts. Excavation: (a) $1.75 per cu. yd.; (b) $1.30; (c) 95 cts. Foundation concrete: (a) $7 per cu. yd.; (b) $6; (c) $6.75. Concrete above foundations and below sidewalks and roadway: (a) $15 per cu. yd.; (b) $11; (c) $7.90. Plain steel reinforcement: (a) 5 cts. per lb.; (b) 2.5 cts.; (c) 2.75 cts. Mechanical bond steel reinforcement: (a) 6 cts. per lb.; (b) 2.75 cts.; (c) 3 cts.

EMPORIA, VA.—Bids are asked until May 20 by the Board of County Supervisors, E. Peyton Turner, Clk., for replacing Long Bridge in Zion District with steel structure about 180 ft. long.

WINCHESTER, VA.—Two bridges will be constructed over Back and Hogue Creeks on Northwestern Turnpike.

ECKMAN, W. VA.—The Eckman Coal & Coke Co. has awarded contract to E. G. NANE & BRO., of Portsmouth, Ohio, for constructing bridge across Elk Horn River, for $10,000.

TROY, N. C.—Bids are asked until May 7 by the Board of County Commissioners, O. B. Deaton, Clk., for constructing steel bridge over Little River at Tony's Ford.

JONESBORO, TENN.—The following bids were received April 27 by the County Court, Charles L. Mason, Clk., for constructing 330-ft. steel bridge with steel piers or tubes filled with concrete, and having two spans, one 200 ft. and other 130 ft., across Nola Chucky River, at Deaderiah's Ford: The Bullen Bridge Co., 219 Hennen Bldg., New Orleans, La., $11,450. Carolina Engineering Co., Burlington, N. C., $11,850. Champion Bridge Co., Chattanooga, Tenn., $11,750. Roanoke Bridge Co., Roanoke, Va., $10,995. Converse Bridge Co., Chattanooga, Tenn., $10,977.

HOPKINSVILLE, KY.—Bids are asked by W. J. Murphy, Road Superv., until May 7 for constructing two abutments for bridge across Little River, about two miles north of Hopkinsville.

COLUMBUS, OHIO.—Bids are asked until May 10 for reconstructing Leonard Ave. viaduct. Henry C. Maetzel is City Engr.

LORAIN, OHIO.—Bids are asked by the Board of County Commissioners, Charles Chandler, Clk., until 1 p. m., May 13, for furnishing material and constructing Ashenbach culvert at Amherst.

UPPER SANDUSKY, OHIO.—Bids are asked by J. N. Traxler, County Audr., until 1 p. m., May 3, for furnishing material and constructing steel bridge superstructure and repairing stone abutment.

CHILLICOTHE, OHIO.—Bids are asked by Charles H. Pinto, County Audr., until noon, May 27, for furnishing material and (A) rebuilding abutment to Jones bridge over Paint Creek, Twin Township; (B) constructing medium steel superstructure for highway bridge over Kinnikinnick Creek on Columbus Pike; (C) medium steel superstructure for highway bridge over Salt Creek at Richmond Dale, and (D) medium steel superstructure for highway bridge over Old-Town Run on West Fall Road at Frankfort.

CORYDON, IND.—Bids are asked until May 6 for constructing four bridges, one in Jackson, one in Boon and two in Heath townships. Frank E. Watson is County Audr.

PORTLAND, MICH.—The Ionia County Board of Supervisors have adopted a resolution declaring the Portland-Danby bridge a public necessity, and recommended erecting steel bridge of single span, 260 ft. long. Cost, $11,000.

JANESVILLE, WIS.—The Common Council has directed C. V. Kerch, City Engr., to prepare plans for constructing bridge at Spring Brook to replace present wooden structure.

VIRGINIA, MINN.—A. Y. BANE & CO., of Minneapolis, have secured contract for erecting steel bridge across the narrows between Virginia and Silver Lakes, at $3,196.

RAPIDAN, MINN.—Bids are asked by Edgar Weaver, County Audr., at Mankato, until 2 p. m., May 6, for furnishing material and constructing in place two stone piers for bridges in Section 34, Rapidan.

MANDAN, N. DAK.—Bids are asked until May 6 for constructing 42-ft. bridge with 16-ft. roadway and 42-ft. combination bridge with 16-ft. roadway over Little Heart Creek. H. J. Travis is Audr.

EL PASO, TEX.—The Southern Pacific Co. and El Paso & Southwestern System have agreed to construct viaduct costing $80,000 over Octavio St. crossing. W. Hood, San Francisco, Cal., is Ch. Engr. of the former company and H. J. Simmons, El Paso, Tex., Gen. Mgr. of the latter.

SAN ANTONIO, TEX.—The San Antonio & Aransas Pass Ry. Co. contemplates improving on its line between San Antonio and Houston, to include construction of drawbridge over Brazos River. W. M. Hobbs, San Antonio, is Gen. Mgr.

PULLMAN, WASH.—Bids are asked by the Board of County Commissioners until 2 p. m., May 7, for reconstructing Grand St. bridge across South Palouse River. Wm. M. Duncan is County Audr.

CATHLAMET, WASH.—Bids are asked by the County Commissioners until noon, May 6, for constructing wooden bridge over Jim Crow Creek. Joseph Girard is County Audr.

MOUNT VERNON, WASH.—Bids are asked by Edward Fredlund, County Audr., until noon, May 7, for constructing wagon bridge across Fresh-Water Slough.

PORTLAND, ORE.—The Council has authorized constructing reinforced concrete bridge across Sullivan's Gulch, at East 28th St. Estimated cost, $75,000. A bridge may also be constructed across the gulch at Union Ave. Douglas W. Taylor is City Engr.

SAN JOSE, CAL.—Bids are asked by the Board of Supervisors, F. E. Mitchell, Chn., until 11 a. m., May 7, for constructing steel reinforced bridge over Stevens Creek on San Jose and San Francisco Road.

SHELLY, IDAHO.—McMILLAN & PERKINS, of Idaho Falls, have been awarded contract for constructing bridge across Snake River, between Shelly and Woodville, at $6,500.

FREDERICTON, N. B.—A bill has been introduced in the New Brunswick Legislature to spend a large sum of money during the next few years in constructing new and rebuilding a number of old bridges throughout the province.

ST. THOMAS, ONT.—Bids are asked until May 3 for reconstructing foot-bridge here. The new bridge is to be of reinforced concrete with three 55-ft. arch spans. James A. Bell is City and County Engr.

BUCKHORN, ONT.—Bids are asked by L. K. Jones, Secy. Dept. Railways and Canals, until 6 p. m., May 15, for constructing concrete dam and highway bridge at Buckhorn.

DAUPHIN, MAN.—The ALGOMA STEEL BRIDGE CO., Sault Ste. Marie, Ont., has secured contract for constructing three 60-ft. span steel bridges in rural Municipality of Dauphin.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked until 3 p. m., May 8, by John F. Ahearn, Pres. Boro. of Manhattan, for erection and completion of public bath buildings to be built at No. 83 Carmine St. and at the corner of Cherry and Oliver Sts., Boro. of Manhattan.

Plans have been filed with the Building Superintendent for a 6-story apartment house to be built for Jacob Axelrod at the corner of Morningside Drive and 118th St. It will front 100.11 ft. on Riverside Drive and 105 ft. in 118th St., with facades of brick trimmed with stone. It is to cost $160,000. G. F. Pelham, 503 Fifth Ave., is Arch.

We are officially advised that Neville & Bagge, Archs., 217 West 125th St., have plans for five separate apartment buildings to be built on the east side of Seventh Ave., 141st to 142d St., for the Crystal Realty Co., 318 West 89th St. The buildings will have six stories, 39 × 90 ft. and 40 × 87 ft., using light brick, limestone and terra cotta, structural steel and iron, fireproofing, iron stairs, electric wiring, etc. Estimated cost, $300,000.

Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., May 28, for construction, complete, of the extension to the U. S. post-office, Brooklyn.

NEW YORK, N. Y.—Bids are asked by Francis J. Lantry, Fire Comr., until 10.30 a. m., May 13, for constructing additions and alterations to quarters of Engine Company No. 69, north side of 233d St., west of Katonah Ave., the Bronx.

POUGHKEEPSIE, N. Y.—Bids are asked by the State Commission in Lunacy, the Capitol, Albany, until 3 p. m., May 8, for rearranging heating system, north and south wings, at the Hudson River State Hospital, Poughkeepsie. T. E. McGarr is Secy. State Comn. in Lunacy, Albany; G. L. Heins is State Arch. (Advertised, Engineering News.)

FAIRPORT, N. Y.—We are officially advised that the CONSOLIDATED ENGINEERING & CONSTRUCTION CO., of Syracuse, N. Y., has the general contract for erecting the Town Hall Building at Fairport, N. Y. The building will be of brick, terra cotta and steel, with reinforced concrete floor construction.

SYRACUSE, N. Y.—A. L. Brockway, Arch., Syracuse Savings Bank Bldg., has completed plans and will let contracts within 30 days for the Yates Hotel annex and remodeling the present hotel. The annex will have 200 rooms and will be strictly fireproof. The present hotel will be made into a fireproof structure. Between $300,000 and $400,000 will be spent.

NEW BRUNSWICK, N. J.—We are officially advised that contract has been awarded to the AMERICAN CONCRETE-STEEL CO., Union Bldg., Newark, N. J., for the construction of a 3-story and basement office building for the New Brunswick Fire Insurance Co., New Brunswick. Building will be 50 × 156 ft. and constructed entirely of reinforced concrete, at a cost of $100,000. George K. Parsell is Superv. Arch.

PITTSBURG, PA.—F. J. Osterling, Arch., Commonwealth Bldg., Pittsburg, has prepared plans for a 17-story bank and office building for the East End Savings & Trust Co., Penn St. and Sheridan Ave., Pittsburg. Cost, $400,000. Paul C. Dunlevy is Treas.

SCRANTON, PA.—Plans for a handsome new passenger station at Scranton, to cost $600,000, have been approved by the management of the Delaware, Lackawanna & Western R. R. Co. It is to be built of Indiana limestone, with marble columns as the central feature. The front elevation shows that the station is to be surrounded on three sides by a continuous marquise 20 ft. wide, to afford shelter over the entrances and sidewalk. Over the main entrance will be six columns and placques of heavy-vein Italian statuary marble. The station building will be 250 ft. long, 83 ft. wide, and five stories high. It will be of fireproof brick and steel construction, with concrete walls and partitions. The main waiting room will be 110 ft. long and 40 ft. wide, and will be covered at the third story by a large skylight of art glass, affording space for one balcony. The interior will be finished in marble and faience. The only visible woodwork will be the seats. In addition to the main entrance will be two others, one leading to the paymaster's lobby and office and the other to the passenger elevators and baggage room. There will be dining and lunch rooms and a kitchen, with a serving room between. Space has been reserved for a conductors' room. Construction is about to begin, and it is expected the building will be finished in about 15 months. Lincoln Bush, Hoboken, N. J., is Ch. Engr.

HARRISBURG, PA.—The State Armory Board has asked the State for an appropriation of $900,000 for National Guard armories during the next two years.

PITTSBURG, PA.—A contract has been let to the A. & S. WILSON CO., 541 Third Ave., Pittsburg, for construction of an eight-story brick office building for Albert Curry, connected with the firm of Avery & Irish, Farmers' Bank Bldg., who will be renting agents of the building. It will cost about $120,000 and work on it is to be started at once. Its erection will require razing the building at Fourth Ave. and Ross St.

WASHINGTON, D. C.—Bids are asked until 3 p. m., May 27, by James Knox Taylor, Superv. Arch., Washington, for construction, including plumbing, heating apparatus, electric work and lift, of an extension to the U. S. custom house in Washington.

James Knox Taylor, Superv. Arch. of the Treasury, Washington, has recommended the acceptance of the bid of EDWIN GILBERT & CO., Land Title Bldg., Philadelphia, for repairing the east front of the Treasury Building at Washington, at $298,965. The work will consist of removing the present sandstone front and the 30 sandstone columns and replacing them with a granite front and the same number of granite monolith columns. Time of completion, Dec. 1, 1908.

ROANOKE, VA.—J. T. Strickland will erect a 7-story business building here, it is reported, at a cost of $150,000.

FORT McPHERSON, GA.—Bids are asked at the office of the Constructing Quartermaster until 11 a. m., June 1, for installing hot water heating in twelve sets officers' quarters and removing six old and installing six new steam boilers in six sets officers' quarters at Fort McPherson. William A. Hansell, Jr., is C. E. and Supt. of Constr., Fort McPherson.

JACKSONVILLE, FLA.—The Masonic Grand Lodge will erect a building here to cost about $110,000. Bids for construction of same will be called for in about sixty days. L. M. Weathers, Cotton Exchange Bldg., Memphis, Tenn., is Arch.

CLEVELAND, OHIO.—Plans have been completed for a building to be constructed for the First National Bank, on Euclid Ave. The building will be of monumental nature, and one of the finest structures in Cleveland. The building will have four immense pillars in the facade. The columns are 62 ft. high, and over six feet in diameter, makink them among the largest in existence. Crowning the columns will be a strong entablature, with a parapet and balustrade above. The space between the columns is treated in the same manner, in keeping with the classical motive, bronze being used in connection with the frames for window and door openings. The material used in the facade will be a light colored granite. J. Milton Dyer, Cuyahoga Bldg., is Arch. Estimated cost, $250,000. Plans will be completed about June 1.

INDIANAPOLIS, IND.—The Board of Public Works has let a contract to the WILLIAM P. JUNGCLAUS CO., 825 Massachusetts Ave., for the construction of a coliseum building at $322,000. Work will begin at once.

BATTLE CREEK, MICH.—Bids will be asked for at once by the Board of Education for construction of a high school to be erected here, to cost about $150,000. Mills & Pruitt, Columbus, Ohio, are Archs.

DETROIT, MICH.—Grinnell Bros., piano manufacturers, will erect a building at 243 Woodward Ave. It will be six stories high, on a plot of ground 60 × 100 ft. The columns and footings, however, will be heavy enough to carry several additional stories which will be built at the same time as the main structure provided occupants for the same are found before the completion of the building. Estimated cost, $150,000. Albert Kahn, Union Trust Bldg., is Arch.

CHICAGO, ILL.—The estate of Otto Young is considering erection of a $10,000,000 hotel on Michigan Boulevard, and an option of the property upon which the hotel is to be built has been granted. The plans provide for a group of restaurants, cafes, lounging rooms, lobbies and parlors on the ground floor, together with an inclosed carriage way and an enormous corridor, 25 ft. wide and 25 ft. high, extending the entire length of the building. There is provision for a large vestibule, which will open into the office. Other things planned are a handsome Pompeiian room, 42 × 57 ft., a palmroom, 41 × 68 ft.; a billiard-room, also on the ground floor, 45 × 58 ft., and a main dining-room, 123 ft. long. On the second floor the plans provide for a ballroom 95 × 100 ft., to open into a conservatory 100 ft. long; two special banquet halls, parlors, dressing-rooms and smaller banquet halls, with special elevators and large staircases leading from the ballroom to the ground floor. D. H. Burnham & Co., Railway Exchange Bldg., are Archs.; John E. Knobel, Heyworth Bldg., is a representative of the Young Estate.

Officials of the Corn Exchange National Bank have announced that work will be begun within a short time on their new bank building at the corner of LaSalle and Adams Sts. The structure is to be 16 stories in height. The ground floor will be occupied exclusively by brokers' offices, the second and third floors by the bank, and the remaining floors will be rented for offices. The exterior will be granite up to the third floor, and above that brick and terra cotta. The bank quarters are to have finishings of foreign marbles and bronze and specially constructed furniture. The building will front 75 ft. on Adams St. and 188 ft. on LaSalle, and will cost about $1,000,000. It will be approximately 245 ft. in height. Shepley, Rutan & Coolidge, Borland Block, are Archs. It is expected that the structure will be finished by May 1, 1908.

C. A. Eckstorm, Arch., 131 LaSalle St., let the following contracts for constructing an office building, being erected at Michigan Ave. and Harrison St., for Julia F. Heyworth, 2902 Michigan Av[illegible] Carpenter work, JAS. SHEDDEN, 92 La[illegible] St.; steam heating, L. H. PRENTICE, 2[illegible]man St.; plumbing, HULBERT & DO[illegible] CO., 211 Randolph St. The building w[illegible] 14 stories high, 77 × 172 ft., built of b[illegible] and steel, and will cost about $500,000.

GREEN BAY, WIS.—James [illegible]x Taylor, Superv. Arch. of the Treasu[illegible]shington, D. C., has awarded to HINK[illegible] & POWERS, Green Bay, Wis., con[illegible] for construction of the post-office a[illegible] city, at their bid of $122,284. Time [illegible]mpletion, March 5, 1909.

MILWAUKEE, WIS.—Plans f[illegible] $1,500,000 court house on site of the pre[illegible]e, 160 × 242 ft., and having four sto[illegible]nd basement, have been submitted to [illegible]nt Committee of the County Board by [illegible] C. Koch, Wells Bldg., Milwaukee, with [illegible] suggestion that if the county could n[illegible]ue bonds sufficient to erect the entire bu[illegible] at once, it could be put up in sections, [illegible] the state capitol is being put up. Th[illegible]pervisors have voted to recommend the [illegible] to the board at large. The archit[illegible]ubmitted another plan, which called for [illegible]dditional building on a new site to be [illegible]ed only by the probate courts, register [illegible] probate, register of deeds and district [illegible]orney. It would cost the county at least $[illegible],000 with site.

SIOUX CITY, IOWA.—Marsh[illegible] & Fox, Archs., 164 Dearborn St., Chica[illegible] let the general contract for constructi[illegible]n office building, to be erected at Sixth [illegible]d Pierce Sts., Sioux City, for L. Milville and William Gordon, of this city, to H. EITENBERGER, 153 LaSalle St., Chicago. To be three stories, 150 × 150 ft., built of press brick and stone; $125,000.

MINNEAPOLIS, MINN.—Bids received for erecting the Palace Building, at Fourth St. and Nicollet Ave., are reported to have been as follows: (a) a 6-story building, with foundation for a 17-story structure; (b) for 4-story, with foundations for 17-story; (c) for 6-story, complete; (d) for 4-story, complete: H. N. Leighton & Co., (a) $156,426, (b) $126,064, (c) $127,900, (d) $98,973; J. & W. A. Elliot, (c) $133,716, (a) $101,760; Pike & Cook, (a) $164,100, (b) $123,400, (c) $136,750, (d) $104,100; J. L. Robinson, (a) $181,670, (b) $146,302, (c) $154,084, (d) $115,924; William Grace Co., (a) $197,900, (b) $163,000, (c) $164,400, (d) $130,000. Long & Long, 380 Hennepin Ave., are Archs.

DULUTH, MINN.—The Bethel Society, it is reported, is having plans prepared for a 4 or 5-story stone and brick building, to cost about $150,000.

WICHITA, KAN.—The contract has been let by Louis Curtiss, Arch., 1114 McGee St., Kansas City, Mo., for constructing a 6-story brick and stone fireproof department store to CARL NILSON and MARTIN CARROLL, Kemper Bldg., Kansas City. The structure will be 90 × 100 ft., will cost $140,000, and will be built for F. G. Smyth & Son, Wichita.

OMAHA, NEB.—The contract for the interior finish and decoration of the top five floors, elevator enclosures and stairways of the new Brandeis Building has been let by John Latenser, Arch., Bee Bldg., Omaha, to JOHN H. HARTE for $172,000. This contract provides for tiling and marble wainscoting on all the floors, and everything in consonance with the finish of the floors already completed. Under the terms of the contract the interior work must be completed by Oct. 1, with a penalty on bonus of $50 a day required from that date. Heating and plumbing contracts for the new buildings are yet to be awarded, and these contracts call for the further expenditure of about $50,000.

PIERRE, S. DAK.—The Chicago & Northwestern Ry. Co. has let the contract to E. P. SHANBERG, of Chicago, for building a new depot for the company at Pierre. It is stated that the building will cost $125,000. E. C. Carter, Chicago, is Ch. Engr.

ST. LOUIS, MO.—Barnett, Haynes & Barnett, Archs., Frisco Bldg., have let general contract to P. J. MOYNIHAN, 1918 Olive St., for constructing a 3-story brick and stone temple, 100 × 155 ft., to be erected at Kingshighway and Washington Boulevard, for the Temple of Israel, Leon Harrison, Pastor, 4131 Maryland Ave. Cost, $150,000.

HOUSTON, TEX.—Plans have been prepared for constructing a 4-story court house, which will cost about $500,000.

OKLAHOMA CITY, OKLA.—The Oklahoma City Ry. Co. contemplates expending about $500,000 for constructing interurban barns and offices and erection of new general car barns. John W. Shartel, Oklahoma City, is Vice-Pres.; Charles W. Ford is Gen. Supt.

GUTHRIE, OKLA.—The Commissioners of Lincoln county have awarded contract to MANHATTAN CONSTRUCTION CO., New York, N. Y., for courthouse to be erected at cost of $130,000 from plans prepared by P. H. Weathers, 319 Hall Bldg., Kansas City, Mo. It will be a 4-story building, 83 × 112 ft.

SEATTLE, WASH.—E. W. Houghton, Arch., Collins Bldg., has announced that work is to begin at once on the footings of the theatre which James A. Moore is erecting at the corner of Second Ave. and Virginia St. S. G. COOMBS has contract. The building is to be 108 × 215 ft., and will have a seating capacity for 2,300 people. Estimated cost, $300,000.

SEATTLE, WASH.—Graham & Myers, Archs., Lowman Bldg., are preparing plans for the 10-story office building to be erected by C. J. Smith and associates on the double corner of Third Ave. and Stewart St. this summer at a cost of $300,000. Excavation for the foundation is now under way, and Mr. Smith announces that he will commence the actual construction at once.

PORTLAND, ORE.—A permit has been granted Lawson & Holbrook for a 6-story brick hotel to be constructed on Eleventh St., between Washington and Stark Sts., to cost $140,000.

The Contracting Engineering Co., Fenton Bldg., Portland, has obtained a permit for the

erection of an [illegible]-story concrete office building on Fourth St. for the Board of Trade to cost $300,000.

SAN FRANCISCO, CAL.—A 7-story hotel building will be erected soon on corner of Jones and O'Farrell Sts. by John Proctor. The building will contain 250 rooms, 80 of which will have baths. There will be two high-speed elevators. The halls are to be wainscoted with marble. The front will be of pressed brick in two shades, trimmed with terra cotta. Thomas J. Welsh, 40 Haight St., and John W. Carey are Archs.

Ellen A. F[illegible] has applied for a permit to erect an 8-story Class A office building at the junction of California, Market and Drumm Sts., at a cost of $175,000.

SAN FRANCISCO, CAL.—The Behlow estate is preparing to erect a building on Geary St., between Stockton and Powell Sts., which will cost $150,000. The dimensions of the lot are [illegible] × 137.6. The building consists of basement and two upper floors, for salesrooms and offices. Emil John is Arch.

The Mechanics' Savings Bank, 143 Montgomery St., will erect a building at the corner of Market and Mason Sts. It will be an 8-story Class A building, costing $200,000. The bank and two stores will be located on the first floor. In the basement will be located marble safe deposit vaults of modern type, with the latest security devices. The upper stories will be devoted to offices. The upper front will be constructed of pressed brick and terra cotta in light colors. Excavation for the building is under way by Lindgren, Hicks Co., Fairmont Hotel. L. B. Dutton, Chronicle Bldg., is Arch.

A steel-frame, 7-story building of brick and terra-cotta construction is to be erected on the north line of Market St., between Mason and Taylor Sts., for Louis Metzger and Louis Shoenberg, to cost $125,000. The building will consist of basement and first and second stories for business purposes. The upper five stories will contain 75 rooms, which will be let as a hotel. The lot extends through to Turk St. and is the site of the old Unique Theatre. Sylvain Schnaittacher, 1706 Fillmore St., is Arch. It is proposed to complete the structure by Jan. 1, 1908.

REDWOOD CITY, CAL.—The Board of Supervisors of San Mateo County have accepted plans prepared by Glenn Allen, 330 Turk St., San Francisco, for the new San Mateo County Court House, to be built in Redwood City. The new building will be a Class A structure, will have two stories and a basement, and will be of fireproof construction. The building will cost about $125,000.

OAKLAND, CAL.—Parkinson & Bergstrom, Archs., have let contract to the AMERICAN BRIDGE CO., 42 Broadway, New York, for constructing steel work of a 7-story building to be built here for Taft & Pennoyer. Estimated cost of building, $140,000.

LOS ANGELES, CAL.—H. Allbright, Arch., Laughlin Bldg., Los Angeles, is preparing plans for a 10-story office building for the Consolidated Realty Co., to be erected on Sixth and Hill Sts., and to cost about $400,000.

SAN FRANCISCO, CAL.—We are officially advised that JAMES STEWART & CO. have been awarded contract to construct a theater, 107½ × 137½ ft., for the Orpheum Circuit Co., 1101 O'Farrell St. The theater will have two galleries and will cost $300,000. Lansburgh & Joseph, 1100 O'Farrell St., are Archs.

MONTREAL, QUE.—About $500,000 will be spent in improvements to the Montreal General Hospital. The contract for the powerhouse has been let to C. E. DEAKIN, 11 Sacramento St., Montreal, at $80,000. T. Pringle & Son, Coristine Bldg., Montreal, are Engrs.-in-Charge.

KENORA, ONT.—The Kenora Tourist Hotel Co., Ltd., will erect a hotel here, at once, to cost $150,000.

WINNIPEG, MAN.—The plans for the new provincial jail to be erected at Winnipeg have been completed. The building, which has been designed by Hooper & Walker, McIntyre Block, will cost about $110,000. Hon. Robert Rogers is Minister of Public Works.

REGINA, SASK.—The Provincial Government will build court houses at Battleford, Saskatoon and Moosejaw this year. F. J. Robinson is Comr. of Works, Regina.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

SOUTH NORWALK, CONN.—SALVATOR CHARIOT is reported to have secured contract for extending water system to Harbor View Beach for $4,140. S. W. Hoyt, Jr., is City Engr.

WATERVILLE, N. Y.—Specifications and bidding sheet for constructing 25,000,000-gallon reservoir and pipe line connecting it with present water system are on file at office of Engineering News, New York. Bids are asked until May 13 by the Board of Water Commissioners, Earl Conger, Clk. (Advertised, Engineering News.)

BUFFALO, N. Y.—Francis G. Ward, Comr. of Pub. Wks., has submitted to the Board of Aldermen a communication recommending watermain extensions to cost about $800,000. His plan calls for a 36-in. main, from pumping station, through Front Ave., Hampshire, Ferry or Lafayette Ave., Main St., Leroy Ave. and Grider St. to the proposed Kensington water tower, which would cost about $300,000, and two extensions of existing 36-in. mains, one from Howard and Metcalfe Sts. to Bailey Ave. and Abbott Road, a distance of about 14,000 ft., which would cost about $150,000. The other from East Utica St. and Fillmore Ave., through the latter avenue to Leroy Ave., a distance of about 8,000 ft., to cost about $100,000. The remainder of the $800,000 would be needed to connect the new pumping station with existing large mains and for the new valve system at both stations. The Commissioner further recommended a bond issue of $500,000 to begin work on the new pumping plant, the estimated cost of which is thus divided: New inlet pier, $275,000; new valve system, $75,000; one triple-expansion steam pump, $100,000; one electric pump, $30,000; and high service water tower, $20,000. The Aldermanic Fin. Com. has decided to report in favor of the $500,000 bond issue recommended by Francis Ward, Comr. of Pub. Wks., for two pumps for the new pumping station, building the new inlet pier and other work connected with plans for enlarging Buffalo's water supply. Charles M. Morse is Deputy Engr. Comr.

BRADFORD, PA.—The following bids were received April 15 by the Board of Water Commissioners for constructing concrete distributing reservoir and furnishing and laying about 470 tons c.-i. pipe: F. R. Foote, Nunda, N. Y., $52,663; R. C. Ruthven, Buffalo, N. Y., $28,366 (reservoir only); M. APPLEGATE & SON, Alliance, Ohio, $48,333 (awarded contract); E. C. Emery & Co., Bradford, $54,590; Pennsylvania Construction Co., Pittsburg, $59,228, and Fields, Barker & Underwood, Philadelphia, $100,460. The LUDLOW VALVE MFG. CO., of Troy, N. Y., secured contract for gates required. S. D. Heffner is Supt. Water Dept.; Knight & Hopkins, of Rome, N. Y., are Engrs.

HARRISBURG, PA.—Bids were received April 23, as follows, for intake well at city pumping station: CODER & MILLER, Harrisburg, $19,622 (awarded contract); Wm. B. Waldo, Park Row Bldg., New York, $20,956; Fields, Barker & Underwood, Philadelphia, $24,959. George G. Kennedy is Supt. Water and Lighting Dept. M. B. Cowden is City Engr.

HALLSTEAD, PA.—Bids ars asked by the Borough Council until 8 p. m., May 7, for constructing 30-in. vitrified tile pipe drain. J. G. McCreary is Secy.

WASHINGTON, D. C.—Bids are asked by James Knox Taylor, Superv. Arch., until 3 p. m., May 16, for restoring duplicate gas and water supply mains in the sub-basement corridor trenches at the U. S. Treasury Building, Washington.

WASHINGTON, D. C.—Bids were received April 27 by the District Commissioners for furnishing 1,000 tons of bell and spigot cast-iron pipe, as follows: *Lynchburg Foundry Co., Lynchburg, Va., $38,80 per ton; United States Cast-Iron Pipe & Foundry Co., Land Title Bldg., Philadelphia, $40.31; American Cast-Iron Pipe & Foundry Co., Birmingham, Ala., $39.80. (*Awarded contract.)

NORFOLK, VA.—FRANK D. MOSES has secured contract for hauling, distributing and laying water pipe in the Seventh Ward, at $3,844. George W. Wright is Ch. Engr. Water Dept.

HARTSVILLE, S. C.—See under Sewerage.

NEWTON, MISS.—A water-works system will be installed soon. Estimated cost, $40,000. Xavier A. Kramer, at Magnolia, Miss., is Consult. Engr.

CANTON, MISS.—Water-works and electric light system will probably be installed. Estimated cost, $100,000. B. Mass is City Clk.

ST. JOSEPH, LA.—The city contemplates establishing water-works, obtaining supply either from Mississippi River or from lake three miles distant. Information and suggestions are invited. Address Newell & Newell, Bank Bldg.

BUNKIE, LA.—The City Council has awarded the following contracts for material for water systems: FAIRBANKS CO., New Orleans, gasoline engine, pump, valves and hydrants; CENTRAL FOUNDRY CO., 116 Nassau St., New York, cast-iron pipe; CHICAGO BRIDGE & IRON WORKS, 105th and Throop Sts., Chicago, Ill., water tower and tank.

HAMILTON, OHIO.—The following bids were received April 18 by the Board of Public Service for furnishing (A) one 6,000,000-gallon pumping engine, (B) two 4,000,000-gallon pumping engines, (C) four 250-HP. boilers, (D) second lot of four 250-HP. boilers, (E) four mechanical stokers, (F) four mechanical stokers adapted to (D): (A) Snow Steam Pump Works, Snow and Roesser Aves., Buffalo, N. Y., $37,350; Laidlaw-Dunn-Gordon Co., Cincinnati, four bids, $23,340, $25,850, $23,995 and $24,850; Platt Iron Works Co., Dayton, Ohio, two bids, $29,535 and $32,660; Hooven, Owens & Rentschler, Hamilton, $25,500; Allis-Chalmers Co., Milwaukee, $39,300; Dravo-Doyle Co., Pittsburg, two bids, $14,000 and $13,800. (B) Snow Steam Pump Works, $59,550; Laidlaw-Dunn-Gordon Co., three bids, $31,950, $33,700 and $31,750; Platt Iron Works Co., $37,365; Hooven, Owens & Rentschler, $38,500; Allis-Chalmers Co., $64,700; Dravo-Doyle Co., two bids, $22,000 and $21,900. (C) Atlas Engine Works, Indianapolis, $11,805; Babcock & Wilcox, Cincinnati, $19,814. (D) No bidders. (E) American Stoker Co., Erie, Pa., $4,030; Detroit Stoker & Foundry Co., $4,400; Under Feed Stoker Co. of America, Chicago, $5,200; Westinghouse Machine Co., Pittsburg, $3,850; Murphy Automatic Smokeless Furnace Co., Detroit, $5,153. (F) American Stoker Co., $4,654; Underfeed Stoker Co. of America, $5,945. J. W. Hill, Cincinnati, Ohio, is Engr.

CINCINNATI, OHIO.—Bids are asked by J. G. Warren, Maj. Engrs., Room 415, Customhouse, Cincinnati, until 2 p. m., May 27, for constructing two dwellings, two outbuildings, two cisterns, one office building and one well at Lock No. 12, Kentucky River, Ky. (Advertised, Engineering News.)

CHESTERTON, IND.—The Town Board has accepted franchise of the Chesterton Water Co. to install water-works.

ARLINGTON HEIGHTS, ILL.—T. C. BROOKE & SON, of Jackson, Mich., have secured contract for extending water-works. Cost, $30,000. H. L. Emerson, Chamber of Commerce Bldg., Chicago, is Engr.

WEST BRANCH, IOWA.—Bids are asked until May 4 for constructing water-works. Estimated cost, $13,000. P. V. N. Myers is City Clk ; B. J. Lambert, of Iowa City, is Engr.

NEW ULM, MINN.—Contract for constructing ditch No. 11 has been let to G. E. GILBERTSON, St. James, Minn. Louis G. Vogel is County Audr.

FARIBAULT, MINN.—Contract for constructing ditch No. 5 has been let to MARTIN G. VIKLA, Secy. Farmers' Association, R. F. D., No. 3, New Prague, Minn. J. J. Rachac is County Audr.

VERNON CENTER, MINN.—The National Construction Co., of South Bend, Ind., is reported to have secured contract to install water-works, including engine, pump, boiler and tank, at about $5,000.

MOORHEAD, MINN.—Bids are asked until May 6 by H. E. Roberts, City Clk., for furnishing material and laying 6-in. water main and installing necessary gate valves and boxes on portion of Fifth Ave. A. M. Hopeman is City Engr.

ALEXANDRIA, MINN.—Bids are asked by E. P. Wright, Audr. of Douglas County, until 10 a. m., May 17, for constructing main ditch, branches and forks of Judicial Ditch No. 3, in Douglas and Pope Counties. Ole Irgens is Audr. of Pope County.

WITHEE, WIS.—A water-works system will be installed. Estimated cost, $9,000.

FRANKFORT, KAN.—Plans are being prepared by Burns & McDonnel, Engrs., Dwight Bldg., Kansas City, Mo., for constructing water-works and sewers.

BONNER SPRINGS, KAN.—Plans are being prepared by Burns & McDonnel, Engrs., Dwight Bldg., Kansas City, Mo., for constructing water mains.

BROOKINGS, S. DAK.—The contract for extending water-works has been let to W. I. GRAY & CO., 704 South Fifth St., Minneapolis, Minn., at $19,435. F. M. Kremer is Mayor.

LISBON, N. DAK.—Bids are asked until May 6 by W. E. Moore, City Audr., for constructing water-works.

BUFORD, N. DAK.—The Secretary of the Interior has awarded contract to JAMES BURTON, of Delhi, Iowa, for construction and completion of Division C of canals and structures, Buford-Trenton Irrigation Project, N. Dak., at $13,282. The contract is for work on the pressure-pipe in connection with the pumping system.

CODY, WYO.—The Secretary of the Interior has let contract to JOHNSON BROS., of Lovell, Wyo., for construction and completion of the work provided for in Divisions 9, 10, 11, 12, 13, 14, 15, 17, 18 and 19, Garland canal and laterals, Shoshone Irrigation Project, Wyo. The work calls for the excavation of 119 miles of canals and doing such work as may be necessary for their completion. The contract amounts to $79,080 and expires April 1, 1908.

GLENDIVE, MONT.—The Secretary of the Interior has awarded contract to the PITTSBURG MFG. CO., of Pittsburg, Pa., in connection with the Lower Yellowstone Irrigation Project, N. Dak.-Mont., for furnishing six gates for sluiceways, complete with standard and stem, delivered f. o. b., cars at Mondak, Mont., at $2,698; time, 60 days; 40 gates for lateral turnouts, at $4,895; time, 70 days.

HUNTLEY, MONT.—The Secretary of the Interior has awarded the following contracts for construction of canals and structures of the Fort Shaw unit of the Sun River Irrigation Project, Mont.: Division 1, D. W. LOVELL, Minneapolis, Minn., six miles of canal, $48,470; Division 2, J. C. FURMAN, Augusta, Mont., six miles of canal, $24,700; Division 3, SEQUIST, CLARK & JOHNSON, Simms, Minn., 21 miles of lateral ditches $30,240; Division 4, CHARLES E. CREPEAU, Ft. Benton, Mont., 39 miles of laterals, including 12 miles of sub-laterals and 17 miles of waste-water ditches, $25,310; Division 5, BAILEY & DUPEE, Great Falls, Mont., 24 miles of laterals, including nine miles of sub-laterals, $19,720.

COMANCHE, IND. T.—A water-works system will be installed. Estimated cost, $25,000.

SAPULPA, IND. T.—The water-works system will be extended. Estimated cost, $6,000.

MUSKOGEE, IND. T.—Bids are asked by T. J. Martin, Mayor, until May 6 for installing high duty steam pumping engine of 2,000,000 gallons daily capacity.

GREELEY, COLO.—DAN. A. CAMFIELD, of this city, has secured contract for completing the irrigation system in Montezuma Valley in the southwestern part of this state. An irrigation district has recently been organized, comprising 60,000 acres. Bonds will be issued to the amount of $795.000 to pay for construction of two reservoirs that will store about 1,000,000,000 cu. ft. of water, repairing present ditches and constructing new ones. The system is to be completed May 1, 1908.

PUEBLO, COLO.—The Red Creek Ditch & Reservoir Co. is reported incorporated with capital of $9,000, by Ira D. Rambo, H. C. Gains and H. H. Harvey, of Pueblo, to construct a canal 4½ miles long in Township 21, to have its headgate on Red Creek, a tributary of Arkansas River, from which water will be supplied to stockholders of the company.

SEATTLE, WASH.—JAMES McNEILL & BROS., Pittsburg, have secured contract for four miles of steel riveted pipe for water-works. R. H. Thomson is City Engr.

PORTLAND, ORE.—The Secretary of the Interior has let a contract to CHRISTIAN ANDERSEN, JOHN S. PETERSEN and S. PETERSEN, of Riverside, Wash., at $5,350, for the construction of Schedule 12, of the main canal, Okanogan Irrigation Project, Wash. The work involves excavation of 19,950 cu. yds. of material. FREDERICK W. ROSENFELT, of Pogee, Wash., has secured contract for construction of Schedules 8, 10, 11, 13 and 14, of the same canal. This work consists of about 59,100 cu. yds. of excavation and will cost $17,188.

PORTLAND, ORE.—The AMERICAN CAST IRON PIPE CO., of Birmingham, Ala., has secured contract for furnishing and delivering 2,150 tons 6, 8, 12 and 16-in. pipe for $91,612 and 130,000 lbs. specials for $4,550. The OREGON IRON & STEEL CO., of Portland, has secured contract for 500 tons of 20-in. pipe at $21,375 and 30,000 lbs. specials for $1,050. D. D. Clarke is Engr. Water Bd.

FORT BARRY (Sausalito post-office), CAL.—The RICKON & EHRET ENGINEERING CONSTRUCTION CO., San Francisco, Cal., has secured contract for the following work at Fort Barry: Construction of reservoir, $10,439; sewer system, $10,433; water system, $16,971.

VANCOUVER, B. C.—Bids are asked by the Water-Works Department until May 8 for supplying about 72,000 steel bands for wood-stave pipe.

Bids are asked by William McQueen, City Clk., until May 8 for supplying c.-i. and steel pipe.

BATTLEFORD, SASK.—Bids are asked by R. C. Laurie until 5 p. m. May 10, for the following works: (a) all labor and materials necessary for constructing water-works, force main, distribution system and intake; (b) all labor and materials necessary for constructing sewer system; (c) the supply and erection of 60,000 gallon elevator tank; (d) the supply and erection of water-works pump; (e) the supply and erection of one return tubular boiler; (f) the supply and erection of an electric light system; (g) the supply in Battleford of cast-iron work for manholes and catch basins. Galt & Smith, of Toronto, Ont., are Consult. Engrs.

SEWERAGE.

WATERBURY, VT.—The following bids were received April 23 by C. C. Graves, Pres. Board of Village Trustees, for laying approximately six miles of 6 to 8-in. sewers: W. S. Teachout, Essex Junction, Vt., $17,600; Horton & Ritchie, Rutland, Vt., $21,431; Charles E. Walbridge, Plymouth, $24,982; Ablett & Bowes, Cohoes, N. Y., $25,480; H. B. Failing, Baldwinsville, N. Y., $26,182; Bryne Construction Co., Boston, Mass., $26,232; Long & Little, Leominster, Mass., $26,656; Evelene Bros., Waterford, N. Y., $27,640; The Pierson Engineering & Construction Co., Bristol, Conn., $27,236; C. E. Trumbull Co., Boston, Mass., $28,648; John A. Karg, Johnstown, N. Y., $29,477; J. B. O'Rouke, South Boston, Mass., $32,556, and W. S. Ames & Co., Saranac Lake, N. Y., $35,848. John L. Collins, 444 Broadway, Albany, N. Y., is Engr.

BEVERLY, MASS.—A. G. TOMASELLO has secured contract for constructing Beckford St. sub-sewer. W. J. Berry is City Engr.

BRIDGEPORT, CONN.—The contract for constructing Asylum St. sewer, which will drain plant of the Bridgeport By-Products Co., has been awarded to the PIERCE MFG. CO., at $4,247. William W. Starr is City Surv.

BINGHAMTON, N. Y.—JOHN J. TYNE has been awarded contracts for constructing six sewers, at $11,105. S. M. Baird is City Engr.

NEW YORK, N. Y.—Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until 11 a. m., May 7, for constructing sewers, receiving basins, etc., in various streets, Boro. of Queens.

PERTH AMBOY, N. J.—Bids are asked by the City Council until 8.30 p. m., May 6, for constructing State St. sewer. The approximate quantities of work are as follows: 800 lin. ft. 6-ft. concrete sewer, 1,700 lin. ft. 6-ft. brick sewer, 10 manholes and 16 receiving basins. Wm. H. Fullerton is Street Comr. Forrest L. Smith is City Engr.

ORANGE, N. J.—Bids are asked until May 6 by the Committee on Sewers, Adolf Hoffman, Chm., for constructing 2,200 ft. 8-in. vitrified pipe sewer in Tremont Ave. F. T. Crane is City Engr.

SCOTTDALE, PA.—Bids are asked by A. L. Porter, Boro. Secy., until 10 a. m., May 14, for constructing sewer system. J. B. Hogg, Connellsville, Pa., is Engr. (Advertised, Engineering News.)

BALTIMORE, MD.—The Board of Awards April 24 awarded contracts for constructing outfall main sewer as follows: J. CONNELLY CONSTRUCTION CO., Cleveland, Ohio, Sections 3, 7 and 8, $130,054, $120,058 and $107,094, respectively; A. F. HELM, Cleveland, Ohio, Section 9, $81,230; J. ERWIN HILLPOT, Philadelphia, Pa., Section 10, $87,054; The METROPOLITAN CONTRACTING CO., 95 Mills St., Boston, Mass., was awarded contract for constructing West Low-Level Interceptor, Sections 1 and 2, at $158,446 and $149,477, respectively. The contract for cleaning and grubbing disposal plant site was let to J. ERWIN HILLPOT, Philadelphia, Pa., at $127,566. Bids were also received from the following: David Peoples, Betz Bldg., Philadelphia, Pa., for constructing High-Level Interceptor, Sections 1, 2 and 5, $118,400, $149,379 and $151,876, respectively; The New York Continental Jewell Filtration Co., 15 Broad St., New York, for constructing Section 4 High-Level Interceptor, at $177,231. The bid of David Peoples for constructing Section 6, outfall main sewer, at $150,846, was held up for later action. Calvin W. Hendrick is Ch. Engr., Sewerage Commission.

BALTIMORE, MD.—Bids are asked by the Board of Awards until 11 a. m., May 15, for constructing Outfall Sewer, Sections 4, 5 and 6, and High Level Interceptor, Sections 1 and 2. The approximate quantities are as follows: Outfall Sewer, 11 ft. × 12 ft. 3-in. concrete sewer, Sections 4, 5 and 6, 2,947, 2,975 and 3,248 lin. ft., respectively. High Level Interceptor, 8 ft. 4 in. concrete sewer, Sections 1 and 2, 2,535 and 2,665 lin. ft., respectively. Calvin W. Hendrick is Ch. Engr., Sewerage Commission. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked by the District Commissioners until 2 p. m., May 15, for furnishing the District Government during year beginning July 1, granite curbing, asphalt paving blocks, vitrified paving blocks, red sewer bricks, terra cotta sewer pipe, vitrified sewer invert blocks, repressed vitrified sewer invert bricks, Portland cement, natural cement and miscellaneous castings.

NORFOLK, VA.—Bids are asked by J. D. Hank, Secy. Local Board, Seventh Ward, until noon, May 30, for constructing portion of sewerage system in Seventh Ward. W. T. Brooke is City Engr. (Advertised, Engineering News.)

NEWPORT NEWS, VA.—The Pine Beach Sewerage Corporation has been chartered with $15,000 capital. Incorporators are: A. D. Jones, E. Peyser, John Lowery, S. Peyser and J. W. Robinson, all of Newport News.

FT. MONROE, VA.—Bids are asked by Capt. R. H. C. Kelton, Q. M., until noon, June 1, for constructing sewer outlet. (Advertised, Engineering News.)

HARTSVILLE, S. C.—The date for receiving bids for constructing sewer and water-works systems has been extended to May 15 by the Board of Public Works, J. J. Lawton, Chn. Charles C. Wilson, Columbia, S. C., is Consult. Engr.

ALEXANDRIA, LA.—Bids are asked by the Mayor and Board of Aldermen until June 4 for furnishing and laying six miles of 8, 10 and 12-in. sewer pipe and accessories. Ira W. Sylvester is City Engr.

LEXINGTON, KY.—City has awarded contract to the KENTUCKY PLUMBING CO. for construction of sanitary sewer on South Limestone St. P. P. O'Neill is City Engr.

KENT, OHIO.—Bids are asked by T. A. McMahon, Clk., until noon, May 11, for furnishing material and constructing sanitary sewer in portion of Park Ave. (Advertised, Engineering News.)

BARBERTON, OHIO.—Bids are asked by the Village Council until noon, May 20, for furnishing material and improving main and local storm sewer in Storm Sewer District No. 1. George Davis is Village Clk. (Advertised, Engineering News.)

RAVENNA, OHIO.—McGARRY & McGOWAN, Akron, Ohio, have secured contract for constructing ten miles of sewers at $44,616. Bids were also submitted by the following: Essex Construction Co., 504 Prudential Bldg., Buffalo, N. Y., $46,670; Wilson & Devine, Alliance, Ohio, $50,491; S. W. Parshall & Co., Akron, Ohio, $50,775; McShaffrey & Morgan, Akron, Ohio, $53,156; L. Garrett, Kent, Ohio, $54,903; Phillips & Bixel, Cleveland, Ohio, $56,549; T. W. Nicholson, Cleveland, Ohio, $56,727; Reserve Construction Co., Cleveland, Ohio, $66,429. Itemized bids were given in issue of April 18 under Contract Prices. Williams, Proctor & Potts, Inc., 17 Battery Pl., New York, are Engrs.

LIMA, OHIO.—Bids are asked by the Board of Public Service, L. L. Crumrine, Secy., until noon, May 8, for constructing 15-in. sewer in Wolt Ave., from Third St. north to corporation line, approximately 1,000 ft. J. K. Brice is Ch. Engr. Bd. Pub. Service.

ELKHART, IND.—Bids are asked until 10 a. m., May 4, for constructing Ninth and Tenth District sewers. Estimated cost, $18,060 and $72,093, respectively. T. G. Wilkinson is City Clk. A. M. Smith is City Engr.

EVANSVILLE, IND.—Bids are asked until May 4 for constructing four blocks of pipe sewers. W. F. Wunderlich is City Clk.; James D. Saunder is City Engr.

LAPORTE, IND.—Bids are asked by the City Council until May 6 for constructing sewers on E. Harrison and Rose Sts. Hiram Burner is City Engr.

KOKOMO, IND.—The Board of Works April 22 let contract for constructing Smith branch sewer to DONNELLY & KELLAR, at $4,735. W. F. Mann is City Engr.

HARTFORD, MICH.—This village is planning to construct sewerage system. Trustees G. W. Merriman, E. B. Bennett and A. W. Olds have been appointed a committee to prepare plans and profiles.

ST. JOSEPH, MICH.—Bids are asked until May 28 by the Board of Public Works for constructing trunk sewers. Harry L. Murphy is City Clk.

OAK PARK, ILL.—Bids are asked by the Board of Local Improvements, B. C. Brandstadt, Secy., until May 7 for constructing sewers. The work consists of 5,505 lin. ft. 12-in., 670 lin. ft. 18-in. pipe sewers, 37 manholes, 33 iron catch-basins, and 39 water service pipes. R. A. Carpenter is Engr.

OCONTO, WIS.—Bids are asked by P. T. Meeuwsen, City Clk., until 7.30 p. m., May 7, for constructing sewers.

FRANKFORT, KAN.—See under Water Supply-Irrigation.

CANEY, KAN.—Plans have been prepared by M. A. Earl & Co., Consult. Engrs., of Muskogee, Ind. T., for constructing sewer system. Estimated cost, $50,000. Bids will soon be asked.

FARGO, N. DAK.—Bids are asked until May 6 by N. C. Morgan, City Audr., for furnishing material and constructing 12-in. lateral sewer on Fifth and Eleventh Sts., in Dist. No. 1. Samuel F. Crabble is City Engr.

LIVINGSTON, MONT.—W. I. GRAY & CO., 704 South Fifth St., Minneapolis, Minn., have been awarded contract for constructing 7,950 ft. main sewer, at $18,845.

ST. JOSEPH, MO.—The Board of Public Works has let contracts for constructing 12-in. pipe sewers in Districts 34 and 84, to PETER SWENSON. Contract for laying 10-in. pipe sewer in District 78 was secured by JOHN MARNELL. W. H. Floyd, Jr., is City Engr.

JOPLIN, MO.—E. J. OVERBY, of this city, has secured contract for constructing Galena sewer, at $17,200.

HOT SPRINGS, ARK.—Bids are asked by the Commissioners of Improvement District No. 24, R. P. Morrison, Chn., until 2 p. m., May 20, for constructing sewer. G. M. French is Engr.

COLVILLE, WASH.—A sewerage system may soon be installed. Harry Bonner is City Engr.

ASHLAND, ORE.—E. E. PHIPPS has been awarded contract for constructing three sewers in Districts No. 7, 8 and 9, at $7,685.

HAMILTON, ONT.—The contract for supplying sewer pipe has been let to the HAMILTON & TORONTO SEWER PIPE CO. STEWART & MILNE have secured contract for supplying castings, at $2.24 per cwt.

WOODSTOCK, ONT.—HASTINGS & SON have beeen awarded contract for supplying vitrified and concrete sewer pipes. The contract for constructing North system of sewers, containing about 7,500 lin. ft. 8 to 22-in. pipe, has been let to THOMAS BRABYN. The CONCRETE & ENGINEERING CO., of London, Ont., has secured contract for constructing South system, containing about 3,300 lin. ft. 12 to 24-in. pipe. Total cost, about $12,000. F. J. Ure is City Engr.

BRIDGEBURG, ONT.—Plans have been prepared by George Ross, of Welland, Ont., for constructing eight miles of pipe sewers and septic tank. Estimated cost, $125,000.

WINNIPEG, MAN.—Bids are asked until May 30 for supplying sewer pipes and junctions. C. J. Brown is City Clk.; H. N. Ruttan is City Engr.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—We are officially advised that the following bids were received April 24 for grading, surfacing, etc., at Quincy Shore Reservation, Atlantic St. to National Sailors' Home, Quincy, with (A) gravel, (B) broken stone: Bruno Salomone and Petitti, 23 Court St., Boston, (A) $75,835, (B) $79,775; Richmond F. Hudson, Melrose, Mass., (A) $67,155, (B) $67,155; John E. Palmer, 166 Devonshire St., Boston, Mass., (A) $66,040, (B) $75,102; T. Stuart & Son Co., Newton, Mass., (A) $56,825, (B) $60,765; John F. Gill Co., Somerville, Mass., (A) $48,384, (B) $61,780; COLEMAN BROS., 15 Court Sq., Boston, (A) $45,192 (awarded contract), (B) $52,284. Itemized bids are given this week under Contract Prices. John R. Rablin is Engr. Metropolitan Park Commission.

BRIDGEPORT, CONN.—Bids are asked by the Aldermanic Commission on Streets and Sidewalks, A. V. Hartley, Chn., until 8 p. m., May 21, for furnishing and laying about 14,500 sq. yds. of wood or vitrified paving blocks on Fairfield Ave., from Park to Clinton Aves. William W. Starr is City Surv. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., May 15, for regulating, grading, curbing, etc., portions of various streets, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, May 7, for furnishing and delivering 2,500 tons of 1½-in. broken stone and screenings of trap-rock, Staten Island syenite, at such points and in such quantities, from time to time, as the Superintendent of Highways may direct, upon the roads within the portion of the Boro. of Richmond known as Stone District No. 1.

Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 3 p. m., May 8, for furnishing and delivering 1,800 cu. yds. trap rock broken stone, 1,500 cu. yds. trap rock screenings, 6,000 cu. yds. sand and 60,000 gallons No. 6 paving cement.

Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until 11 a. m., May 7, for regulating, grading, paving, etc., portions of various streets, Boro. of Queens.

OGDENSBURG, N. Y.—Bids are asked by the Board of Public Works until May 6 for constructing 15,000 yds. concrete sidewalk. D. J. Crichton, Jr., is City Clk. (Advertised, Engineering News.)

NIAGARA FALLS, N. Y.—Bids are asked until May 7 for paving Cleveland Ave., Eighth, 13th and Whirlpool Sts. Estimated cost, $37,500. The material will be selected by the property owners after bids are received and published. W. W. Reed is City Engr.

CAPE MAY, N. J.—Bids are asked by the County Board of Chosen Freeholders, Anthony B. Smith, Dir., until noon, May 23, for constructing two state and county roads. R. Fendall Smith is County Engr. (Advertised, Engineering News.)

FT. HANCOCK (Sandy Hook post office), N. J.—Bids are asked by Lieut. Wm. Paterson, Q. M., until noon, June 1, for repairing macadam roads. (Advertised, Engineering News.)

UNION, N. J.—Bids are asked by the Township Commission until 8 p. m., May 6, for macadamizing portion of Grant Ave. William S. Logan is Township Engr.

TRENTON, N. J.—Bids are asked by the City Council until 8 p. m., May 7, for laying brick, granolithic and flagstone sidewalks, curbs and gutters. Harry B. Salter is City Clk. Abram Swan, Jr., is City Engr.

TITUSVILLE, PA.—MAYER BROS., Erie, Pa., have contract for 1½-miles of paving and CHARLES MOORE, Titusville, has contract for paving Crook St. H. A. Holstein is City Engr.

OIL CITY, PA.—Bids will soon be asked by E. S. Lawrence, City Engr., for paving various streets.

ERIE, PA.—We are officially advised that JOHN McCORMICK & SON, of this city, have been awarded contract for paving East Ave. with brick on 5-in. cement base, at $1.79 per yd. and laying artificial curb at 50 cts. per lin. ft. B. E. Briggs is City Engr.

TOWSON (Baltimore post-office), MD.—Bids are asked by the County Highways Commission, E. Stanton Bosley, Secy., until noon, May 9, for grading and macadamizing about 2½-miles of roads.

WASHINGTON, D. C.—See under Sewerage.

The District Commissioners have divided the contract for paving the streets of this city with sheet asphalt during the fiscal year ending June 30, 1908, between the BRENNAN CONSTRUCTION CO., 3056 K St., N. W., Washington, and the CRANFORD PAVING CO., 20th and E Sts., N. W., Washington. Each company to pave such streets as are assigned to them at the amount of their bids. The cost of paving for the year will be about $78,000.

CHARLOTTE, N. C.—Bids are being received by J. H. Cross, Chn. Street Com., for paving 25 blocks with various kinds of pavement.

SAVANNAH, GA.—The SOUTHERN PAVING & CONSTRUCTION CO., Chattanooga, Tenn., has secured contract for repairing and resurfacing asphalt streets. About $75,000 will be expended. George M. Gadsden is Dir. Pub. Wks.

ALEXANDRIA, LA.—The city has let contract to the SOUTHERN CONSTRUCTION CO., Hattiesburg, Miss., for paving with vitrified brick lower Third St. F. S. Hoyt is City Engr.

UNION CITY, TENN.—The City Council has let contract for gravelling three miles of streets to the TROY PAVING CO., of Jackson, Tenn., at about $10,000.

NEWBERN, TENN.—Various streets will be paved. Estimated cost, $25,000.

JEFFERSON CITY, TENN.—The city has awarded contract to M. L. BEELER for laying 4,000 ft. of concrete sidewalk.

LOUISVILLE, KY.—Bids are asked by the Board of Public Works, until May 10, for grading, curbing and paving nine streets with vitrified block. Work embraces 3,600 cu. yds. of excavation and 8,800 sq. yds of paving. Estimated cost, $23,000. Roger G. McGrath is Secy. Bd. Pub Wks. Joseph P. Claybrook is City Engr.

MANSFIELD, OHIO.—Bids are asked by the Board of Public Service until noon, May 10, for furnishing material and constructing 15,000 sq. yds. brick pavement, 10,000 cu. yds. grading, 3,500 sq. yds. cement or flagstone sidewalks and concrete masonry retaining wall, containing 400 cu. yds. Bids also are asked for furnishing 3,000 bbls. of cement. Loren Keith is City Engr. (Advertised, Engineering News.)

ASHLAND, OHIO.—Bids are asked by A. P. Black, Village Clk., until noon, May 6, for grading, curbing and paving about 17,000 sq. yds. on Union and West Washington Sts. F. L. Niederheiser is City Engr. (Advertised, Engineering News.)

NORWALK, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until May 21, for constructing highway.

HAMILTON, OHIO.—Bids are asked by the Board of Public Service until noon, May 4, for five blocks of paving on Second St., and seven blocks on Maple Ave. A. L. Dillon is City Engr.

CROOKSVILLE, OHIO.—Plans and specifications for paving three streets are being prepared by John Avery, County Engr., at New Lexington, Ohio. Bids will soon be asked by the Board of Public Service.

WADSWORTH, OHIO.—P. T. McCOURT has secured contract for paving Main and High Sts., at $24,015.

MT. VERNON, OHIO.—Contract for paving various streets has been awarded to EVANS & HARPER, of Zanesville, at about $33,000.

FINDLAY, OHIO.—The Board of Service has let contract for paving Howard St., from Main St. to Morey Ave., to HALL & SON, at $9,552.

LIMA, OHIO.—Bids are asked by the Board of Public Service, L. L. Crumrine, Secy., until noon, May 7, for grading, curbing and paving with sheet asphalt, block asphalt or vitrified paving block, on concrete foundation, North Elizabeth St., from Market to North Sts. J. K. Brice is Ch. Engr., Bd. Pub. Service.

MANSFIELD, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until May 22, for constructing highway.

WASHINGTON, IND.—Bids are asked by the County Commissioners until May 7 for constructing gravel road in Steele Township. Thomas Nugent is County Audr.

INDIANAPOLIS, IND.—Bids will soon be asked by the Board of Public Works for constructing asphalt, block and brick pavements, cement walks and sewers. Blaine H. Miller is City Engr.

LAGRANGE, IND.—The MOELLERING CONSTRUCTION CO., of Fort Wayne, Ind., has secured contract for paving Detroit St., at $13,281.

ANN ARBOR, MICH.—Bids are asked by Ross Granger, City Clk., until 7.30 p. m., May 8, for constructing sidewalks.

JACKSON, MICH.—Bids are asked by the Board of Public Works, J. F. Harrison, Supt., until 8 p. m., May 3, for furnishing material and constructing sidewalks and curbing. A. B. Stevens is City Engr.

WYANDOTTE, MICH.—J. E. CONLEY, of Dayton, has been awarded contract for paving Oak St., at $37,633. James G. Pinson is City Clk.

HASTINGS, MICH.—C. J. CARPENTER, Grand Rapids, Mich., has been awarded contract, at $25,715, for paving State St. with metropolitan brick. James M. Patten is City Clk.

MENOMINEE, MICH.—JOHN STRIFFLER, Marinette, Wis., has been awarded contract, at $17,500, for paving Upper Main St. with tar macadam. Albert Hess is City Engr.

ROCKFORD, ILL.—The Board of Local Improvements, Charles E. Jackson, Pres., has let contract to JOHN RYDBLOM for macadamizing various streets. Edward Main is City Engr.

DECATUR, ILL.—The Board of Local Improvements has let contract to S. A. Tutle & Co., city, at $17,408, for paving South Oakland Ave. with block-brick, on a concrete foundation, from Main St. to the city limits. A. B. Alexander is City Engr.

LA CROSSE, WIS.—Bids are asked by the Board of Public Works until 2 p. m., May 10, for laying concrete curb and gutter and macadam on Market St., from Seventh to 16th Sts. W. S. Woods is City Engr.

MOLINE, ILL.—The [illegible] CITY CONSTRUCTION CO. April [illegible] secured contract for paving Second Ave. [illegible] brick, from 17th to 21st Sts., at $1[illegible] One other bid was submitted by the M[illegible]hy Construction Co., at $13,385. C[illegible] Anderson is City Engr.

SUPERIOR, WIS.—The [illegible]rd of Public Works has let contract to [illegible] JOHNSON for laying concrete sidewalk[illegible] M. White is City Engr.

ALBERT LEA, MINN.—[illegible] are asked until May 27 for construct[illegible]10 ft. cement curb on Park Ave. and [illegible] ft. 10-in. pipe sewer, including five catch[illegible] Wm. Barneck is City Engr.

CROOKSTON, MINN.—[illegible] are asked by the City Council until 8 [illegible] May 14, for asphalt paving, curb and [illegible] on Houston Ave. Approximately 10,0[illegible] yds.. J. E. Carroll is City Engr.

FARGO, N. DAK.—Bids [illegible] asked by N. C. Morgan, City Audr., u[illegible] 5 p. m., May 6, for paving and curbing [illegible]on of Eighth Ave. North. Samuel F. Cr[illegible] is City Engr.

TRENTON, MO.—The T[illegible]ON MFG. & CONSTRUCTION CO. has [illegible]ived contract for paving twelve blocks. [illegible] J. Pearson is City Engr.

KANSAS CITY, MO.—J. [illegible] SAMUEL has secured contract at $6,179 to [illegible]adamize portion of 73d St. Edgar A. Harper is City Engr.

LOS ANGELES, CAL.—J. M. MONTGOMERY has been awarded contract, at $11,625, for grading on Huntington [illegible].

SALT LAKE CITY, UTAH.—The contracts for paving Temple St., from Fourth South to Fifth South Sts. (paving extension No. 23), and South Temple St., from Tenth East St. to the United States Military Reservation (paving extension No. 28), have been awarded to P. J. MORAN, of this city. The bids received are as follows: Extension No. 23, P. J. MORAN, 5 yr. guarantee $17,844, 10 yr. guarantee $19,054; Barber Asphalt Paving Co., 5 yr guarantee $18,969, 10 yr. guarantee $20,179. Extension No. 28, P. J. MORAN, 5 yr. guarantee $62,189, 10 yr. guarantee $65,379; Barber Asphalt Paving Co., 5 yr. guarantee $67,272, 10 yr. guarantee $70,462. Itemized bids will be given next week under Contract Prices. Louis C. Kelsey is City Engr.

TORONTO JUNCTION, ONT.—Bids are asked by W. J. Conron, Town Clk., until 6.30 p. m., May 8, for paving Dundas St. and laying concrete sidewalk from Humberside Ave. to Victoria St. George S. Abrey is Town Engr.

BRANDON, MAN.—Bids are being received by the City Council for furnishing 12-ton steam roller. W. H. Shillinglaw is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

WATERVILLE, ME.—Archts. H. L. Gilman & Co. are preparing plans for a 7-story cordage factory, 100 × 1,300 ft., for the Int. Fiber Co. Reinforced concrete, concrete floors, gravel roof, skylight, gas and electric fixtures, water closets, steam heat, etc. $1,500,000.

PORTSMOUTH, N. H.—Bids are asked until 11 a. m., June 1, at the Bureau of Yards and Docks, Washington, D. C., for installing laundry equipment for the naval prison, Portsmouth. R. C. Hollyday is Ch. of Bureau. Specifications are on file at the office of Engineering News, New York.

BOSTON, MASS.—Burroughs & De Blois, 28 Kilby St., Boston, are to erect an 8-story brick factory building, 105 × 200 ft., on Charlestown St., near Causeway St., next to Boston Harbor.

PERRY, N. Y.—The Tempest Knitting Co. has been incorporated at Perry with a capital of $75,000. A site has been secured and a plant is to be built. The main structure will be 50 × 120 ft., two stories and basement, with an engine and boiler house of brick, a separate lighting plant and fire protection. Knitting and spinning machines have been contracted for, to be ready by Oct. 1. D. M. Tempest is Pres.; George J. Grieve, Vice-Pres.; J. Newton Wyckoff, Sec., and Joseph E. Cole, Treas.

JAMESTOWN, N. Y.—W. J. Beardsley, Arch., 149 Market St., Poughkeepsie, is preparing plans for an addition to the plant of the Dahlstrom Metallic Door Co. Estimated cost, $75,000.

OSWEGO, N. Y.—The wooden storehouse of the Standard Spinning Co., facing First St., is now being torn down to make room for a 2-story brick building 50 × 50 ft., which will be used for manufacturing purposes. The company's property has a frontage north of the present brick blower building of the company of about 150 ft. The new building will occupy 50 ft. of this space and it is planned to erect a storehouse on the remainder to take the place of the wooden one now being torn down.

NIAGARA FALLS, N. Y.—Bids are asked until July 1, by the Niagara Pulp Board Co. for erecting a plant to cost about $50,000. It will be one story high and 100 × 150 ft. N. J. Bowker, 704 Buffalo St., Niagara Falls, is interested.

BUFFALO, N. Y.—The E. R. Thomas Motor Co., 1190 Niagara St., has filed plans for a 4-story factory addition to its plant at Niagara and Ferry Sts. It will be of concrete construction, fireproof, and will cost $40,000.

CLAIRTON, PA.—The McAULEY AUTOMATIC TRAP CO., Penn Ave., Pittsburg, was recently awarded the contract for the steam trap equipment for the extension to the Clairton plant of the Carnegie Steel Co., Carnegie Bldg., Pittsburg.

PHILADELPHIA, PA.—A 7-story and basement manufacturing building will be erected at the corner of Twelfth and Callowhill Sts. for the Wolf Building Co. The structure will be 100.3 ft. wide and 135 ft. deep, and will be built either of brick or reinforced concrete and terra cotta. The building will be occupied by Wolf Bros., 508 Ludlow St., paper manufacturers. The building to be erected will cost more than $100,000. Stearn & Castor, Stephen Girard Bldg., are Archs.

J. E. & A. L. PENNOCK, Land Title Bldg., have contract to erect for Mrs. Anna Weightman Walker a manufacturing building on the north side of Washington Ave., east of 13th St. The building, when completed, will be leased to the General Electric Co., 226 South Eleventh St., as a factory and warehouse. The structure will measure 120 × 95 ft., and will be five stories high. The principal material of construction will be reinforced concrete. It will be fireproof throughout, and will be built after the most modern principles of construction. The cost will be $100,000.

BALTIMORE, MD.—D. F. Schmidt, 1740 East Eager St., was the lowest bidder, at $12,498, for construction of a 4-story trunk factory for C. [illegible] Dunn Co., 321 North Calvert St. The construction will be of brick with limestone trimmings, and will be 23 × 100 ft. L. Lowther Forrest, Professional Bldg., Baltimore, is Arch.

The Torsch Packing Co., Charles H. Torsch, Pres., Fort Ave. Clement and Lawrence Sts., will erect additional buildings at its plant, as follows: Warehouse, three stories, 63 × 100 ft., brick with stone trimmings, mill construction; stable, two stories, 25.4 × 60 ft., brick with stone trimmings. John Freund, Jr., Vansant Bldg., is Arch.

MONONGAH, W. VA. — Consolidated Graphite Co., recently incorporated, will erect a building and establish a plant for the production of graphite. The building is to be 60 × 100 ft., with additions. Cost, $30,000. Officers: F. V. Ruchman, Pres.; James A. Reidy, Sec.

CHARLESTON, W. VA.—Jack Carr will begin soon erecting a 4-story flour and feed mill, which will be constructed of brick. Estimated cost, $20,000.

SPENCER, N. C.—According to press reports the Southern Ry. Co. will erect its own locomotive works at Spencer, and otherwise improve and enlarge the plant here. It is estimated that the cost of new buildings to be erected will be $500,000 or more, and that all sorts of railroad machinery will be turned out at Spencer. Already plans are under way to enlarge the water system by using three large mains from the Yadkin River, three miles distant. It is reported also, that a plant will be established here for building of Pullman cars. A. Stewart, Washington, is Gen. Supt. of Motive Power and Engines.

ATLANTA, GA.—The Georgia Railway & Electric Co., Atlanta, Ga., has prepared plans for erection of several new buildings, to include a machine shop, 68 × 98 ft.; addition to paint shop, 50 × 110 ft.; addition to the carpenter shop, and a new blacksmith shop. The plans also include erection of a steel car barn, 102 × 258 ft., with a capacity of 50 cars. G. W. Brine, Electric and Gas Bldg., is Supt. Electrical Dept.

The Metzger Mattress Co., lately incorporated, will erect a 3-story building, 100 × 150 ft., for manufacturing mattresses, springs, cots, etc.

A. D. and Max Greenfield and Joseph Loewus, of the Capital City Brick Co., 5 South Broad St., have purchased site, 100 × 200 ft., adjoining lot now owned and having a frontage of 57 ft. It is contemplated to erect a 4-story brick building for store and manufacturing purposes.

ROANOKE, ALA.—The Roanoke Guano Co. will establish a guano and acid plant here, investing about $100,000.

MOBILE, ALA.—A plant for manufacturing cardboard from the swamp grass is to be installed here. The plant will be built by a company now being organized, with a capital stock of $100,000, by J. W. Burge, of Mobile; F. M. Phillips, of New Orleans, La., and S. D. Squires, of Dayton, Ohio.

COWLEY, LA.—The Hunter Rice Mill Co., it is reported, will rebuild its plant, recently destroyed by fire at a loss of about $100,000. W. H. Hunter, Jr., is Mgr.

RAYNE, LA.—The Ida Rice Mill will be rebuilt and enlarged. Building when completed will be 96 × 240 ft., two stories. Improvements will cost about $10,000. Capacity, 400 bbls. rice per day of 12 hours. T. Dickson is Arch.; W. T. Case is Engr.

CROSSVILLE, TENN.—E. S. Cram & Co. have purchased several thousand acres of timber lands near this town, and will erect a $50,000 mill here for manufacturing sash, doors, banisters and all kinds of building material. A tram road will also be constructed, to be about twelve miles in length.

FAYETTEVILLE, TENN.—It is reported that the Elk Cotton Mills will expend $70,000 to erect 75 × 186-ft. addition and install 10,000 spindles. Present equipment, 6,000 spindles.

NASHVILLE, TENN.—The American Snuff Co. will erect a can factory in Nashville, with a capacity of 18,000,000 cans a year.

CANTON, OHIO.—The AMSLER ENGINEERING CO., Diamond Bank Bldg., Pittsburg, Pa., has secured contract for building an annealing furnace, two drying ovens and one core oven for the Shull Steel Castings Co., Canton.

GALION, OHIO.—The Galion Iron Works, Galion, Ohio, manufacturer of cast iron culvert pipe and general founder, has purchased a site of about five acres, situated in the southern part of this city, at the junction of the Cleveland, Cincinnati, Chicago & St. Louis and Erie railroads, upon which it will erect its plant. The main building will be 60 × 200 ft., and in addition there will be a power plant building, cupola room, storage sheds, etc. It is expected that contracts will be placed in a few days for the equipment, which will consist of cupola, jib crane, traveling crane, trolleys, gas engines, blower, industrial cars and other foundry apparatus.

ROBY, IND.—The Western Glucose Co., of Roby, has awarded a contract to the WITHERSPOON-ENGLER CONSTRUCTION CO. to erect an elevator at $50,000.

BLOOMINGTON, IND.—Bids are asked until May 10, by the Indiana University, to construct a chimney 5½ × 130 ft. We are officially advised that the chimney is to be constructed of brick or concrete. A. L. Foley is Mechanician, Indiana University.

DETROIT, MICH.—The Detroit Steel Products Co. has purchased five acres at Chene St. and Michigan Central R. R., upon which it will build a plant for manufacturing automobile springs, friction draft springs for railroad cars and drop forgings. Main building is to be 450 ft. long, with two wings of 100 ft. each. James G. Rumsey is Gen. Mgr., 89 Fort St., East.

BATTLE CREEK, MICH.—Plans are being prepared for a plant to be built for the Union Steam Pump Co. An addition is to be made to the present machine shops, and a power plant is to be constructed.

WILMINGTON, ILL.—It is announced that the American Straw Board Co., Old Colony Bldg., Chicago, will build a new mill at Wilmington, to cost about $400,000.

GRANITE CITY, ILL.—The Corn Products Co., 26 Broadway, New York, has decided to erect a plant to manufacture tin cans. Plans have been completed for the plant, which probably will be erected at Granite City, Ill., where one of the company's syrup factories is located. About $300,000 will be spent in installing the plant, the machinery for which has been ordered.

CHICAGO, ILL.—The American Cutlery Co., 189 Mather St., will build a 6-story factory at 175 Mather St., to cost $75,000. It will front 42 ft., with a depth of 133 ft. The plans for the building have been prepared by H. L. Newhouse, Arch., 4630 Prairie Ave.

The Chicago Belting Co., 69 South Canal St., will construct a 3-story building, 145 × 117 ft., on the east side of Green St., 100 ft. south of Randolph St., to cost $100,000.

MILWAUKEE, WIS.—The Allis-Chalmers Co. will erect a mica plant on Hanover St., Milwaukee, at a cost of about $85,000.

HARVEY, IOWA.—Contracts will be let in about 60 days for the proposed cement plant, to cost about $1,200,000. The Freeborn Engine & Construction Co. are Engrs., Heist Bldg., Kansas City, Mo. W. E. Foshier, of Harvey, is interested.

BURLINGTON, IOWA.—Chittenden & Eastman Co. will build a 5 or 6-story chair factory here, to cost about $50,000.

KANSAS CITY, MO.—John Gund Brewing Co. has purchased site 90 × 43 ft., at $18,000, and will erect distributing depot, expending about $50,000.

ST. LOUIS, MO.—H. G. Clymer, Arch., Wainwright Bldg., has prepared plans for an addition to shoe factory for the Peters Shoe Co., 13th St. and Washington Ave. Fred W. Peters is Supt. Cost, $40,000.

WEBB CITY, MO.—The Royalty Land & Mining Co., lately incorporated, will erect and equip a building to cost $22,000, after plans by Wiginton & Milton and establish a 300-ton concentrating plant. Officers are R. A. Braznell and A. D. Hatten. Plant will produce zinc blend, about 20 tons lead and zinc concentrates.

OKLAHOMA CITY, OKLA.—Western Newspaper Union, of Omaha, Neb., will erect building, six stories, 100 × 100 ft., brick, steel and reinforced concrete, to cost $80,000. Contract will be awarded soon. It is reported that company will increase its equipment for local plant as soon as this new structure is completed. Charles E. Verity is Local Mgr.

FORT WILLIAM, ONT.—The Northern Engineering & Supply Co., Fort Wiliam, will construct a $25,000 addition to its plant, in which it will construct all kinds of heavy machinery.

BRANTFORD, ONT.—A new foundry is to be erected in Brantford by the Hartley Foundry Co., of which F. A. Hartley is the head. The building will be 37 × 100 ft. Only machinery castings will be made at present.

STRATFORD, ONT.—The Mooney Biscuit Co. have had plans prepared for a 5-story 63 × 40 ft. brick and stone factory addition to their present building.

GUELPH, ONT.—Work will be commenced immediately by the Standard Fitting & Valve Co. on a new machinery building, 70 × 200 ft., which will be constructed of brick.

PORT ARTHUR, ONT.—Bids are asked for all the lumber and timber required in the construction of the Meisel Mfg. Co.'s plant at Port Arthur during the year 1907. The lumber and timber is to be delivered on the ground of the plant. F. W. Woods is Mgr.

WALKERSVILLE, ONT.—It is reported that the Standard Chain Co., 525 Third Ave., Pittsburg, Pa., has decided to build a plant at Walkersville. The cost of the work will be about $200,000. The Canadian company will be known as the Standard Chain Co., of Canada, Ltd.

ALAMEDA, SASK.—The Prairie Milling Co. will erect a grist mill here, it is reported, to cost $50,000.

SASKATOON, SASK.—NYDER BROS. Regina, have been awarded contract for erection of a brewery here, to cost $100,000.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

WHARF—San Luis Obispo, Cal.—Bids are asked by the Board of Supervisors until 10 a. m., May 8, for construction of a public wharf at Arila.

UNDERPASS—Atlanta, Ga.—The following are the bids opened on April 15 by the City Council for the Pryor St. underpass: E. C. Seiz, $9,961; L. A. Mullen, $9,725; Grant Wilkins, $11,000; Gude & Walker, $8,780; and Scott Bros., $12,500; bidders all of Atlanta.

TELEPHONE SYSTEM.—Williamstown, Ky. —The Citizens' Telephone Co., of Cincinnati, Ohio, has purchased a telephone franchise here for $15,000.

DREDGING—Boston, Mass. — Bids are asked until May 25 by Maj. Edw. Burr, Corps Engrs., U. S. A., Boston, for dredging in Beverly Harbor, Mass.

TELEPHONE SYSTEM—Virden, Man.—Council has voted unanimously in favor of establishing a municipal telephone system at once. A. G. MacDougall is Clk.

TELEPHONE SYSTEM—Calgary, Alta.—The City Council has voted in favor of establishing a municipal telephone system. About 4,000 telephones would be needed.

CEMENT—New York, N. Y.—Bids are asked until noon, May 13, by J. A. Bensel, Comr. of Docks, for furnishing about 10,000 bbls. of Portland cement. Security is $7,500.

CEMENT—Winnipeg, Man.—Bids for the supply of from 15,000 to 30,000 bbls. of cement will be received by the Winnipeg Board of Control until May 10th. M. Peterson, Secy.

TELEPHONE SYSTEM—Fort Saskatchewan, Alta.—The Provincial Government has taken over the telephone system here. Hon. W. H. Cushing is Minister of Public Works, Calgary, Alta.

HARBOR EXCAVATION—Buffalo, N. Y.—Bids are asked until 11 a. m., June 1, by Col. H. M. Adams, Corps Engrs., U. S. A., for harbor excavation at Buffalo. (Advertised, Engineering News.)

DREDGING—Wilmington, Del.—Bids are asked until 11 a. m., May 4, by Maj. C. A. F. Flagler, Corps of Engrs., U. S. A., for dredging Appoquinimink, Smyrna, St. Jones and Murderkill Rivers, Del.

FIRE SYSTEM—Washington, D. C.—Bids are asked by Maj. M. Zalinski, Q. M., U. S. A., Washington, until 11 a. m., May 20, for the installation of a fire system at Arlington National Cemetery, Va.

PIER, BREAKWATER.—Erie, Pa.—Bids are asked by Col. H. M. Adams, Corps Engrs., U. S. A., at Buffalo, N. Y., until May 22, for extending south pier and repairing south breakwater at Erie Harbor, Pa.

IRON, STEEL, ETC.—Watertown, Mass.—Bids are asked until May 20 by Lieut.-Col. F. E. Hobbs, Ordnance Dept., Comdg. Watertown Arsenal, for furnishing iron, steel, lumber, etc., during year ending June 30, 1908.

DREDGING—Tarrytown, N. Y.—Bids are asked until noon, May 31, for dredging in harbor at Tarrytown. Col. D. W. Lockwood, Corps of Engrs., Army Bldg., 39 Whitehall St., New York. (Advertised, Engineering News.)

CHEMICAL ENGINES, HOSE WAGONS—Vancouver, B. C.—Bids are asked until May 23d for two automobile chemical engines and two automobile hose wagons, for use of the Fire Department of Vancouver. Wm. McQueen, City Clerk.

STEAM VESSEL REPAIRS.—New York, N. Y.—Bids are asked until 10 a. m., May 13, by Theo. A. Bingham, Police Comr., for repairs and alterations to the steam vessel "Patrol," stationed at Pier "A," North River, Boro. of Manhattan.

TUNNEL — Chattanooga, Tenn. — W. L. Dodds, County Engr., states that it is proposed to construct a county road tunnel through Missionary Ridge at a cost of $115,000. A. J. Gahagan is Chn. and Geo. M. Clark is Secy. of the Tunnel Comn.

TELEPHONE SYSTEM—Brandon, Man.—The City Council has voted for the immediate construction of a civic telephone system to be conducted under municipal ownership. Work will be started as soon as weather will permit. Address S. E. Clement.

DREDGING—New York, N. Y.—Bids are asked until noon, May 13, by J. A. Bensel, Comr. of Docks, for dredging about 150,000 cu. yds. on the East and Harlem Rivers, Boroughs of Manhattan, Brooklyn, Queens and the Bronx, and in the Borough of Richmond.

PILES—Vancouver, B. C.—Bids are asked until May 8th for supplying and driving piles at the mouth of Capilano Creek and near the mouth of Seymour Creek. Specifications may be seen at the Water-Works Office, Vancouver. Wm. McQueen, City Clerk.

DREDGING.—New London, Conn.—Bids are asked until noon, May 22, by Maj. Harry Taylor, Corps. Engrs., U. S. A., for dredging the Housatonic River. Specifications and bidding sheet are on file at office of Engineering News, New York. (Advertised, Engineering News.)

RIPRAP.—New Haven, Conn.—Bids are asked until noon, May 21, by Maj. Harry Taylor, Corps Engrs., U. S. A., New London, Conn., for delivering rip-rap stone in breakwater, at New Haven. Specifications and bidding sheet are on file at office of Engineering News, New York.

RIVER CHANNEL—Utica, N. Y.—Bids are asked by Chas. H. Childs, Chn. Mohawk River Straightening Comn., 1218 Lafayette St., Utica, until May 4, for completion of changing of channel of Mohawk River between Utica and the town of Deerfield. Paul Schultz, City Engr.

DREDGE — Philadelphia, Pa. — Bids are asked until 2.30, June 7, by Maj. J. C. Sanford, Corps of Engrs., U. S. A., 815 Witherspoon Bldg., Philadelphia, for constructing steel, single-screw suction dredge for Columbia River, Oregon and Washington. (Advertised, Engineering News.)

TUNNEL—Pittsburg, Pa.—A charter has been granted to the West End Tunnel Co. to construct a tunnel between Wabash and Carson Sts., in Pittsburg. The tunnel is to be 24×20 ft. Incorporators: W. H. Locke, of Grafton, and Henry Feuchtwanger and John Moren, Pittsburg. Capital, $10,000.

VESSEL.—Washington, D. C.—Bids were opened April 30, at the office of the Revenue Cutter Service, Treasury Dept., Washington, D. C., for the construction and delivery of one ocean-going tug, to be known as Revenue Cutter No. 17. Only one bid was received, that of the Pusey & Jones Co., Wilmington, Del., at $325,000. The appropriation is $250,000.

WHARF—New Orleans, La.—Bids are asked until May 14 by the Board of Commissioners, Port of New Orleans, Hugh McCloskey, Pres., for constructing the St. Andrew St. Wharf. Plans and specifications may be had from A. C. Bell, Engr., 506 Hibernia Bank Bldg., upon a deposit of $15.

LEVEE BUILDING MACHINE—New Orleans, La.—Bids are asked until 11 a. m., May 24, by Capt. J. F. McIndoe, Corps Engrs., U. S. A., Mississippi River Commission, Fourth District, 1539 Louisiana Ave., for furnishing one complete levee building machine. (Advertised, Engineering News.)

DREDGING—New York, N. Y.—Bids are asked by Col. D. W. Lockwood, Corps of Engrs., U. S. A., Army Bldg., 39 Whitehall St., until noon, May 27, for dredging in Keyport Harbor, Matawan Creek, Raritan, South and Elizabeth Rivers, Shoal Harbor and Compton Creek, and Cheesequake Creek, N. J. (Advertised, Engineering News.)

CEMENT.—Salt Lake City, Utah.—Contract has been awarded to the PORTLAND CEMENT CO., of Denver, Colo., for furnishing 30,000 bbls. of Portland cement for use in connection with the Uncompahgre Valley irrigation project, Colo. The cement will be furnished at $2.05 per bbl., f. o. b., cars at the company's mills at Portland, Ohio.

BREAKWATER SUPERSTRUCTURE. — Buffalo, N. Y.—Bids are asked until 11 a. m., May 18, by Col. H. M. Adams, Corps Engrs., U. S. A., Buffalo, for constructing stone-concrete superstructure on the Buffalo Breakwater. Specifications and bidding sheet are on file at office of Engineering News, New York. (Advertised, Engineering News.)

ENGINEERING SUPPLIES, ETC.—Tompkinsville, N. Y.—Bids are asked by Maj. Chas. L. Potter, U. S. A., Engr., Third Light-House Dist., until 1 p. m., May 21, for miscellaneous engineering supplies, iron and steel, lumber, building material, belting, etc. Specifications and bidding sheet are on file at office of Engineering News, New York.

LEVEES. — Marysville, Cal.—City has awarded contract to EDWARD MALLEY, 1384 McAllister St., San Francisco, for raising the city levees. Cost, $50,000. Incoming railroads will do additional work of the same kind that would cost the city $75,000. The levees will be raised five feet above high water mark and will have a crown 16 feet wide.

DOCKS, ETC.—Jacksonville, Fla.—The Seaboard Air Line Ry. Co. has awarded contracts for docks and terminals in this city to W. C. HADLOW & CO., BLAIR BURWELL, of this city, and F. A. VON EBERSTEIN & CO., of Savannah, Ga. T. F. BROWN, of Jacksonville, will do the pile driving and wharf work of about two-thirds of the contract.

TELEPHONE LINE.—Edmonton, Alta.—The government long-distance telephone line now being built between McLeod and Coleman will be extended to Lethbridge, Taber and Medicine Hat as soon as it is completed. Other lines will be started in the spring, including lines from Lloydminster to Edmonton, from Wetaskiwin to Daysland, from Lacombe to Stettler. Hon. W. H. Cushing, Minister of Public Works, Calgary, Alta.

ELEVATED CONNECTION. — Brooklyn, N. Y.—The contract for the connection between the approach to the Williamsburgh Bridge and the Broadway elevated structure has been awarded to the COOPER & EVANS CO., 220 Broadway, New York, by the Brooklyn Rapid Transit system, at $13,666.

The same company also has the contract for the approach to the Williamsburgh Bridge, across the Brooklyn Plaza, amounting to $92,761.

COKE OVENS.—Dunlap, Tenn.—The Southern Steel Co., of Chattanooga, Tenn., has let the contract for the building of a battery of 400 coke ovens at Dunlap, which will cost $250,000. The OAK HILL MARBLE & STONE CO., of Birmingham, Ala., was the successful bidder. The ovens are to be ready by December. The coal mines at that place have a capacity of 1,000 tons daily. The Southern Steel Co. has completed coking plants at Coal City, Dade County, Ga., and other places.

HEADSTONES.—Boston, Mass.—Bids are asked until 1 p. m., May 22, by Capt. Geo. L. Goodale, Depot Q. M., U. S. A., 263 Summer St., for furnishing the quartermaster's department, U. S. army, 12,000 white marble headstones, conforming to existing standard and specifications. Quantity specified subject to an increase or decrease not to exceed 50 per cent. A guarantee in the amount of 10 per cent. of the bid will be required. Unguaranteed bids will not be considered. Early deliveries essential.

UNDERGRADE CROSSING. — Louisville, Ky.—Bids were received as follows by the Department of Public Works on April 29 for undergrade crossing in Oak St. under the Illinois Central R. R. tracks: Henry Bickel Co., Whayne Bldg., Louisville, $72,477; L. R. Figg, 243 Sixth St., Louisville, $90,420; National Concrete Construction Co., Board of Trade Bldg., Louisville, $92,523; engineers' estimate, $69,181. Noted on April 18. Itemized bids will be given under Contract Prices next week.

CEMENT.—Provo, Utah.—A board of consulting engineers of the Reclamation Service convened April 23, at Provo, Utah, to open bids for furnishing 10,000 bbls. of Portland cement for the Strawberry irrigation project, received three proposals, as follows: Universal Portland Cement Co., Chicago, $1.50 per bbl., f. o. b., cars at company's mills. Western States Portland Cement Co., $1.65 per bbl., f. o. b., cars at company's mills, Independence, Kan. Portland Cement Co., Denver, Colo., $2.05 per bbl., f. o. b., cars at mills, Denver, Colo. Papers have been forwarded to the Secretary of the Interior for action.

FLOOD PROTECTION—Grand Rapids, Mich.—L. W. Anderson, City Engr., advises us that $1,000,000 has been voted for flood protection. This work will consist of the construction of dikes and walls, the deepening of the river bed, and the construction of pumping stations. It will also be necessary to construct two large trunk sewers which will be paid for out of two different funds. The city is now awaiting the report of the army engineers with reference to the question of flood protection before pushing along the work, expecting the board to be here in the near future.

VESSELS.—Washington, D. C.—Bids were opened April 30, at the Light House Board, Dept. of Commerce and Labor, Washington, for the construction and delivery of eight twin-screw light house vessels at Tompkinsville, Staten Island, N. Y. Bids were received also on a smaller number. Newport News Shipbuilding & Dry Dock Co., Newport News, Va., four vessels, $189,000 each; five to eight, $187,000 each. Bath Iron Works, Ltd., Bath, Me., two, $197,000 each. Harlan & Hollingsworth, Wilmington, Del., no bid. Maryland Steel Co., Sparrows Point, Md., two, $199,750; three, $198,150; four, $196,500 each. Fore River Shipbuilding Co., Quincy, Mass., (a) vessels as specified, (b) with Wilcox water-tube boilers; one, (a) $196,000; (b) $193,300; two (a) $189,500; (b) $186,300; three, (a) $187,400; (b) $184,800; four (a) $186,200; (b) $182,700; five to eight (a) $184,800; (b) $181,000. New York Shipbuilding Co., Camden, N. J., four (a) $165,000; (b) $169,000; five to eight (a) $164,000; (b) $168,000; one vessel delivered at Detroit, Mich., for the additional sum of $3,000.

SUBWAYS.—New York, N. Y.—Bids were called for by the Board of Rapid Transit R. R. Commissioners, 320 Broadway, until noon, April 25, for building the section of the subway railroad system to be known as the Lexington Ave. Route. Also at the same date by Board of Rapid Transit R. R. Commissioners for the Seventh and Eighth Ave. and Jerome Ave. subway routes, as fully noted on April 4. No bids were received. An informal proposal was received from the Interborough-Metropolitan Co. offering to continue the present subway north of 42d St. to the Bronx on the East Side and to build an extension south of 42d St. to the Battery, provided the commission would allow the company to build these lines on practically its own terms. The New York "Commercial" states that "in a letter from Theodore P. Shonts, Pres. of the Interborough-Metropolitan, the members of the board were told that it would be impossible to construct the extensions under the terms and conditions laid down in the contract since the return would not pay the fixed charges. The company offered to construct the extensions at actual cost; that is, with the city's money but without seeking any profit for itself out of bare construction. It offered to provide the equipment at its own expense, but conditions were laid down which virtually amounted to a demand for a guarantee from the city of a fair rate of interest on the money invested by the company in the new roads."

DREDGING—Ottawa, Ont.—Bids are asked by Fred. Gelinas, Secy. Dept. Public Works, until May 6, for dredging required at the following places in the Province of Quebec during the present year: River Ouelle, Rimouski pier, River Saguenay, and Bay St. Paul, Cap au Corbeau.

Bids are asked at the same date for dredging required at the following places in the Province of Quebec during the present year: Blanche Shoals, Chateauguay River, Dorion, Hudson, St. Francis River, Vaudreuil, Yamaska, St. Andrews (North River), River Jesus, River L'Assomption, Hay Island (opposite Berthier), River Nicolet, River Becancourt, St. Placide, Raquette River, Point Cavagnale, River Batiscan, River du Loup en haut, River Maskinonge, River St. Maurice, Yamaska, Godfroi River, St. Pierre les Becquets.

Bids are also asked at the same date for the dredging required at the following places in the Province of Ontario during the present year: Belle River, Chenal Ecarte, Goderich, Kincardine, Port Elgin, Port Burwell, Point Edward, Port Stanley, Rondeau, River Thames, Wiarton, Blind River, Sydenham River, Beaverton, Bronte, Bracebridge, Meaford, Owen Sound, Thornbury, Toronto, Waubaushene, Wingfield Basin, Nigger and Telegraph Islands, Trenton Harbor and Dark Channel, Penetanguishene, Midland, Hamilton, Cobourg.

Combined specification and form of tender can be obtained at the Department of Public Works, Ottawa. Bids must include the towing of the plant to and from the works. Only dredges can be employed which are registered at the time of the filing of bids.

BARGE CANAL.—Albany, N. Y.—Frederick Skene, State Engr. and Surveyor, has presented to the Canal Board for adoption the plans and specifications for three additional barge canal contracts. This work includes the excavation of the canal, protecting its sides, the construction of lock 23 and appertaining structures, bridges, abutments, bridge approaches and other incidental details between the deep water at the west end of Oneida Lake and the Mosquito Point bridge over the Seneca River, the cost of the work to approximate $3,000,000.

Also, for the work of dredging a channel in the Mohawk River between Station 305 and a point near the upper Mohawk aqueduct, at Rexford Flats, Saratoga county; for constructing Dam No. 2 below Crescent aqueduct; Dam No. 3 and Lock No. 7 above Visscher's Ferry; Dam No. 9 and Lock No. 13 at Yosts; Dam No. 10 and Lock No. 14, at Canajoharie; Dam No. 11 and Lock No. 15, Fort Plain; a retaining dam at Mindenville, Montgomery county; highway changes, constructing culverts and work appertaining thereto; the cost of the work to approximate $2,880,000.

Also, for the work of excavating the canal and protecting its sides, constructing locks Nos. 7 and 8, bulkheads, culverts, spillways and incidental details between a point about half a mile above the Utica St. bridge, Oswego, N. Y., and the harbor line north of **Bridge St. bridge, Oswego; the cost of the work to approximate $750,000. When the plans and specifications for these contracts have been approved by the canal board, F. C. Stevens, Supt. of Public Works, will advertise for bids.**

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., May 7, to furnish at the navy yards, etc., Boston, Mass.; Newport, R. I.; New York, N. Y.; League Island, Pa.; Annapolis, Md.; Washington, D. C., and Norfolk, Va., and the naval training station, North Chicago, Ill., as specified, a quantity of naval supplies, among which are the following: Schedule 645—Fire alarm system. Schedule 646—Georgia pine, creosoted yellow pine and piles, oak, rails, bronze rod. Schedule 647—Laboratory supplies. Schedule 648—Tools, hemlock and white pine, chemicals, repairing veranda. Schedule 649—Iron bolts, copper rivets, brass wire, gun springs, mine anchor covers, cartridges, etc., retorts, condensers, stoneware, grate bars, sheet copper, pig lead, asbestos board, rubber aprons. Schedule 650—Steel conduit, iron and steel pipe, brass pipe, elbows, lavatories. Schedule 651—Sand, coke, plug bits, leather belting, white pine, ash, steel shapes, steel forgings, fuel, oil. Schedule 653—Cedar, white pine, poplar, spruce. Schedule 654—Sheet brass, sheet lead, solder, steel angles, sheet tin, pig tin. E. B. Rogers, Paymaster-Gen., U. S. N.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

RAILWAY SUPPLIES.—Panama.—Bids are asked until 2 p. m. May 6, by Alfred Anderson, Asst. Pur. Agent, Panama R. R. Co., 24 State St., New York, for miscellaneous rail-

CABLE.—Panama.—A direct cable between New York and Panama is the project of the Central & South American Telegraph Co., 66 Broadway, New York, approved by its stockholders. The cable will be 2,200 miles long and will have only one intermediate station, that at Baracoa, Cuba. It is proposed to lay this new cable in 1907.

PIPE.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has divided between U. S. STEEL PRODUCTS EXPORTS CO., 24 State St., New York, and E. F. KEATING CO., New York, contract for furnishing 310,000 ft. of galvanized-iron pipe, under Circular No. 360, opened April 25.

PIPE.—Panama.—Bids were opened April 25 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing 310,000 ft. galvanized iron pipe, from ¼-in. to 4 in., as follows: Cuyler & Mohler, 611 William St., Baltimore, $46,725; 120 days. Mark Mfg. Co., Box G, Chicago, $39,937; 120 days. United States Steel Products Exports Co., 24 State St., New York, $41,293; 120 days. E. F. Keating Co., New York, $41,400. Southern Exporting Co., New Orleans, $45,455; 60 days. way supplies.

ROCK-CRUSHER PLANT.—Panama.—Bids were opened April 19, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing and installing a rock-crusher plant, with engine, at Porto Bello, C. Z. Bids were, on the complete plant: Manning, Maxwell & Moore, 85 Liberty St., New York, $59,482, or $61,617, using nickel steel shafting; time 100 to 300 days; Motley, Green & Co., 66 Broad St., New York, $65,219 or $65,469; time, 140 days. On the engine only: A. L. Ide & Sons, 90 West St., New York, $4,740 and $6,132; 135 days; Ames Iron Works, Arcade Bldg., Philadelphia, $4,360; 70 days; D'Olier Engineering Co., 121 S. 11th St., Philadelphia, $4,425, 135 days.

LUMBER. — Panama. — Requisitions have been received by the Isthmian Canal Commission, Washington, for a large quantity of lumber, for which specifications are now being prepared and will appear in a few days under Circular No. 365. The order will consist of 1,200,000 ft. B. M. 1 × 6 flooring, 1,000,000 ft. 1 × 6 lap siding, 800,000 ft. 1 × 6 ceiling, 50,000 each 1 × 6, 1 × 8, 1 × 10; 100,000 ft. 1 × 12, 250,000 ft. 1-ft., 1-in., 1 × 4 round; 800,000 ft. 2 × 4 S. 4 S., 600,000 ft. each 2 × 6 and 2 × 8, S one side and one edge, 50,000 ft. each 2 × 10 and 2 × 12 same; 400,000 ft. 4 × 4 S. 4 S., 200,000 ft. 4 × 6 S. 4 S., 100,000 ft. 3 × 6 S. 1 S., 200,000 ft. 3 × 8 same, 300,000 ft. each 3 × 10 and 3 × 12 same, 50,000 ft. 3 × 14 same, 400,000 2 × 3 rough, 300,000 ft. 6 × 8 rough.

POWER-PLANT. — Panama. — David W. Ross, Gen. Purchasing Officer of the Isthmian Canal Commission, Washington, D. C., has awarded as follows contract for the construction of a power-plant for the rock-crushing plant at Porto Bello, C. Z.: Item 1, air compressor and air receiver, CHICAGO PNEUMATIC TOOL CO., 95 Liberty St., New York, $4,257. Item 2, generator and engine, $3,215, and Item 3, switchboard, $220, to WESTINGHOUSE ELECTRIC CO., Continental Trust Bldg., Baltimore. Item 4, surface condenser, $4,118; item 5, water-service pump, $102; item 6, boiler-feed pumps, $191, to HENRY R. WORTHINGTON, 114 Liberty St., New York. Item 7, grease extractor, $205, to JAMES BEGGS & CO., 109 Liberty St., New York. Item 8, feed-water heater, $592, to JAMES REILLY REPAIR & SUPPLY CO., 225 West St., New York. Item 9, four water-tube boilers, to A. D. GRANGER, 95 Liberty St., New York, $9,265.

PILES.—Panama.—Bids were opened as follows on April 25 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for furnishing piles as follows: 500, length 25 ft., least diameter at small end 10 ins.; 1,500, 30 ft., 9 in.; 1,500, 40 ft., 8 ins.; 1,000, 50 ft., 6 ins.; 500, 60 ft., 6 ins. Continental Lumber Co., Houston, Tex., $75,050; 180 days. **G. Elias & Bro., Buffalo, N. Y., $51,875; 120 days. Wm. D. Gill & Sons, 701 President St., Baltimore, $65,625; 180 days. Nichols Bros., 74 Cortlandt St., New York, $35,600; 150 days. Panama Lumber & Trading Co., New Orleans, $48,861; 100 days. Robt. R. Sizer & Co., 4 East Bay St., Jacksonville, Fla., $43,-994; 100 days. Salmen Brick & Lumber Co., 716 Common St., New Orleans, $42,070; 35 days.** M. M. Wood, Starks, La., delivered Port Arthur, Tex., unit prices only quoted. A. S. Bacon & Sons, 2 Bey St., Savannah Ga., $52,500; 120 days. D. L. Gillespie & Co., 541 Wood St., Pittsburg, $42,570; 150 days. J. K. Joice, First National Bank Bldg., Chicago, $46,857; 100 days.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

SLAUGHTER HOUSE.—Chihuahua, Chih.—The Municipal Council of Chihuahua has awarded contract to E. MONDRAGON for construction of a new slaughter house, to cost $40,000.

MINING MACHINERY.—Cananea, Son.—It is reported that the reduction capacity of the Greene-Cananea Co., at Cananea, Sonora, will be increased from 3,000 to 10,000 tons per day.

MINING MACHINERY.—La Lombardia, Michoacan.—The Santa Casilda Copper Co., operating property near the town of Lombardia, Michoacan, is planning to erect a large concentrating plant.

RESERVOIRS.—Monterey.—The Monterey Water Works & Sewer Co., Ltd., will construct two 10,000,000-gal. concrete reservoirs and add twelve miles of concrete pipe line. F. S. Badger is Engr., 91 Matamoras St.

PLANTATION RAILWAY ROLLING STOCK.—Veracruz.—It is reported that the Mexican National Sugar Refining Co., which is to build a railway on its plantation, near Cordoba, V. C., is to purchase two locomotives and 50 or 60 cars.

BRIDGE.—Sinaloa.—The UNITED STATES STEEL PRODUCTS EXPORT CO. has secured contract for the steel to be used in the highway bridge over the Tamazula River. JUAN SHEPARD & CO., of Mexico City, have contract for erection of same.

ELECTRIC TRAMWAY.—City of Mexico.—The Mexican Electric Tramway Co. has applied to the Department of Communications for permission to construct a new line from La Merced to Colonia de la Condesa, passing through Colonia Roma. R. C. Brown is Mgr. Dir.

TERMINALS.—Veracruz, V. C.—The plans for the terminals of the Interoceanic at Veracruz have been completed, and will be submitted to the Government for approval. The works will be extensive, and construction will commence as soon as possible after the approval of the plans.

RAILWAY.—Chihuahua.—The Government of the State of Chihuahua has granted a concession to John L. Johnson for the construction of a standard gage railway from the Mexican Central station of Ojo Caliente to Cerro de los Lamentos. The work must be completed within one year.

IRRIGATION WORKS.—Nuevo Leon.—Isaac Garza, of Monterey, Nuevo Leon, in conjunction with other capitalists, is preparing to construct an extensive system of irrigation on lands near Paso del Zacato, in the Villa de Aldama District. A system of storage reservoirs and distributing ditches will be built.

POWER PLANTS, ETC.—Jalisco.—The Rosario Mining Co., whose offices are in Chicago, and whose mines are in the State of Jalisco, Mex., proposes to erect a power plant in connection with its properties to develop 1,000 HP., and a cyanide mill of 120 tons daily capacity. The improvements are estimated to cost about $280,000.

SMELTER.—San Jose del Pinal District, Chihuahua.—It is reported that the Mary Mining Co., of Pittsburg, Pa., owning and operating copper, silver and lead mines in the San Jose del Pinal District, Chihuahua, contemplates erecting a smelter of considerable capacity upon the property. Dr. Leandro Ruth is Supt. and Mgr. at the mines.

MINING MACHINERY.—Jalisco.—The Virginia & Mexico Mine & Smelter Corporation is being organized, with a capital of $2,000,-000 gold. W. J. Payne, Richmond, Va., is interested, and will be Pres. of the company. Jesse Scobey, Mining Engr., of Denver, Colo., will be Vice-Pres and Gen. Mgr. Considerable mining machinery will be purchased by the company and installed in mines in the Hostotipaquillo District, Jalisco.

CANALS.—Tampico.—The Mexican Government has completed plans for opening the Laguna de la Madre, an old lake bed running for a distance of 100 miles from a point about 90 miles north of here to within a short distance of Matamoras. Two canals will be cut from the Gulf of Mexico through into the lake bed, which will be filled with water. The canals will have to be cut for a distance of about a mile through sand.

POWER PLANT.—Saltillo.—The Saltillo Electric Light & Power Co., of Saltillo, will erect a large building on its recently acquired property on Calle de Victoria at the National Railroad crossing. The structure when completed will cost in the neighborhood of $50,000. The capital of the light company has recently been increased to $200,000, and extensive improvements to the light and power system are being planned.

EXPLOSIVE FACTORY.—Federal Dist.—El Rayo, S. A., is the name of a company recently organized in the City of Mexico, with a capital of $100,000, for the purpose of manufacturing an explosive known as "Econite." The factory will be located within the limits of the Federal District. Carlos Eisenmann, of the City of Mexico, is a director of the company. Lawrence F. Bedford is Pres. and Treas., and Luis G. Pardo is Secy.

RAILWAY.—Tampico. — The RAILWAY CONSTRUCTION CO., of the City of Mexico, has been given the contract to build the first 50 kilometers of the Mexico-Tampico Short Line, and work will be commenced at once. C. P. Webber, Asst. [illegible] Engr. of the Mexican Central Co., will [illegible] direct charge of the work. Lewis King[illegible] City of Mexico, is Ch. Engr. BELL [illegible] EMMES, Contractors, will build the [illegible] kilometres contracted for.

MINING MACHINERY[illegible]urango.—The Durango Investment & [illegible]ment Co. has been organized, with a ca[illegible] of $1,000,000, to exploit the Plateros a[illegible]melita mines, in the San Juan de Mezq[illegible] District, State of Durango. The compan[illegible]poses to erect a mill and holds a conce[illegible] from the Government to use the water [illegible] the Mezquital River to generate power. [illegible] company has offices in the City of M[illegible] at Donceles, No. 13.

MINING MACHINERY[illegible]huila.—The Irene Mining, Smelting & [illegible]specting Co. has been formed by G. Be[illegible]nes, residing in the city of Saltillo, C[illegible] San Antonio capitalists are the princip[illegible]ckholders in the company. The compan[illegible]pose to purchase a large amount of [illegible]hinery to be installed at the Josephine [illegible]e, a copper proposition, situated in the [illegible] of Coahuila, about 25 miles from Gom[illegible]arias, on the National Ry.

FEDERAL BUILDING.—[illegible]uahua, Chih. —Rafael Alcorca, an Engr. [illegible] the City of Mexico, has been authoriz[illegible] by the Federal Government to make [illegible]racts for the construction of a $300,000 [illegible]ral building on the site of the old mint, [illegible] the City of Chihuahua, and is now in [illegible] latter city. The building will contain [illegible] the Federal Government offices in the ci[illegible] including the post-office, stamp office, the [illegible]x offices and assay office.

POWER PLANT.—Pachuca.—The WESTINGHOUSE ELECTRIC & MFG. CO., Westinghouse Bldg., Pittsburg, Pa., has secured a contract for a $2,000,000 power plant for the Compania Electrica e Irrigadora, of Pachuca, and is building the machinery at its East Pittsburg works. Four 2,000-HP. generators and adjuncts are the principal part of the contract. The plant will furnish additional electrical light and power to the city of Pachuca, and to the mines of the Real del Monte Cie.

HYDRO-ELECTRIC POWER.—Jalisco.—E. J. Callahan, of Guadaleja, Jal., has applied to the Federal Government for a concession to use 15,000 liters of water per second, from the Santiago River, for the purpose of generating electric power in the Hostotipaquillo District. In this petition Mr. Callahan asks the right to divert the water from the river at any point between the Cabrestante Arroyo and a point eight kilometers below. No definite estimate has been made as yet of the amount of power that can be generated.

PAVING, ETC.—Aguascalientes.—The COMPANIA BANCARIA DE OBRAS Y BIENES RAICES, of Mexico City, has secured contract from the State of Aguascalientes for drainage and paving work in the city of Aguascalientes. The work will cost about $1,100,000 and this amount will be advanced by the Compania Bancarie, the State being allowed fifty years in which to pay off the debt. The paving will be done by the MEXICAN ASPHALT PAVING CO., which has the paving contract in Guadalajara.

FEDERAL BUILDING. — Guadalajara, Jal.—The Federal Government is having plans made for a new federal building in Guadalajara. The structure will occupy the site of the present federal building, fronting the Porfirio Diaz Garden. It will be three stories high and will cost about $400,000. The first floor will be devoted to the post-office and the second and third floors to the federal courts, stamp offices and other departments. It is expected that a contract will be let for the construction of the building within the next few months.

STEEL PLANT.—Monterey.—The Monterey Iron & Steel Co., at Monterey, has decided to more than double its capacity. The original plant cost more than $10,000,000, and according to plans which have just been adopted an additional $10,000,000 will be expended in enlarging. The plant is now turning out 1,200 tons of refined steel per week. The largest blast furnace already produces sufficient pig iron to supply the steel refining plant with material for the contemplated increased production. The company will erect another blast furnace, which will be ready to blow in the latter part of the present year.

WATER WORKS, SEWERAGE, PAVING AND IRRIGATION.—Aguascalientes, Ags.—Presbitero Ramon C. Gutierrez, of the city of Aguascalientes, capital of the State of Aguascalientes, holds a concession for building a dam in the Arroyo del Morcauique, and for furnishing water to the city. In addition about 1,000 HP. will be developed, and about 30,000,000 cu. mts. of water available yearly for irrigation. Mr. Gutierrez has entered into partnership with Schoendube and Neugebaur, Orden de San Agustin, No. 3, City of Mexico, and they have associated with the Compania Bancaria de Obrasy Bienes Raices, of the City of Mexico, which will furnish $1,400,000 in the execution of the work.

HYDRO-ELECTRIC MACHINERY.—Guadalajara, Jal.—The Cie Electra, the Tramway Light & Power Company, and the Cie Industrial de Guadalajara, have been merged and taken over by City of Mexico capitalists, the new company being termed Compania de Tranvias, Yuerza y Leuz de Guadalajara. The company is capitalized at $11,000,000. Tomas Torres, late Sub-Director of the general post-office in the City of Mexico, has been appointed Gen. Mgr., with headquarters in Guadalajara. The company has ordered estimates prepared on the cost of installing machinery to increase the hydro-electric power at the Las Juntas power plant, on the Santiago River about five miles from the city, from the present capacity of 6,000 HP. to 9,000 HP. The Chacota Canal, which will furnish an additional 10,000 HP., has been completed, and it is stated machinery will be purchased and installed without delays. It is intended to transmit the power from the latter plant to mining districts and other points.

HYDRO ELECTRIC POWER.—Pachuca, Hidalgo.—The Council of Administration of the Electric Power Transmission Co., with headquarters in Pachuca, State of Hidalgo, announces that it has been decided to purchase two additional water powers and to erect more electric generating plants.

HOTEL.—City of Mexico.—Preliminary plans have been completed for the new hotel which is to be erected on the Pasco de la Reforma, Mexico City. The building, which will be rectangular in shape, will have a frontage on the Pasco de la Reforma of 400 ft., and will have 400 guest rooms. It will be five stories in height. Frank M. Andrews, of New York, is drawing the plans for the hotel, the preliminary sketches having been completed and accepted. Ralph O. Taylor probably will be in charge of construction.

ELECTRIC TRAMWAYS AND POWER.—Puebla, Pue.—The Mexican Light & Power Co. has completed the purchase of the Puebla Tramways Light & Power Co., which includes the Electric Light Co. and Urban Industrial Tramways of Puebla. The Tuxipango water power, on the Rio Blanco, near Orizaba, has also been purchased. The company intends to develop 30,000 HP. from the Tuxipango purchase for transmission to Puebla. The work contemplated by the company in electrifying the tramways, reconstruction of the plants and the development of the water power will, it is estimated, cost $6,000,000 gold. The general offices of the company are in the City of Mexico.

COTTON MILL.—Guadalajara, Jal.—The Cia Industrial de Guadalajara, composed of French dry goods merchants, are looking for a suitable location for a large cotton mill they contemplate erecting in the city. The company already have three mills located in the neighborhood of the city, which are running to their full capacity, but are inadequate to supply the demand for cotton goods. The projected mill, if built, will be run by electricity, to be transmitted from a hydro-electric plant owned by the company, located about eight miles from the city. It is also proposed to increase the capacity of this plant. Antonio Gas, Apartado Postal 133, Guadalajara, is Pres. of the company.

HYDRO ELECTRIC POWER.—Oaxaca.—S. P. Applewhite, of the City of Mexico, has secured a concession from the Federal Government for the development of electric power on the Rio Grande River, in the District of Culcatlan, State of Oaxaca. Under the terms of the concession power can be transmitted to any point desired. It is Mr. Applewhite's intention to supply power and electric lighting to the city of Oaxaca and to the different mining camps in the vicinity, principally in the Taviche Dstrict. It is intended to commence construction at an early date. The concession allows the free importation of machinery, materials of construction, etc., and the free use of Government lands.

RAILWAY & MINING MACHINERY.—Guanajuato, Gto.—The Mexican Milling & Transportation Co. has been organized by the Guanajuato Development Co., to build and operate the belt line railway, and to engage extensively in the custom milling of ores. The belt line will have a total length of about 37 miles, will connect with the Mexican Central Ry. in the city of Guanajuato and will reach every important mine and mill in the district. In addition to the railway the company will build a 200-ton custom mill at Santa Ana, and one of a daily capacity of 100 tons in the Santa Ross camp. The capacity of the Nayal mill will be increased. The construction of the mills will be commenced at once and it is hoped to have a daily milling capacity of 500 tons by the end of the present year.

RAILROAD.—Guadalajara.—It is announced that the ATLANTIC CONSTRUCTION CO., 6 Beacon St., Boston, Mass., which took the contract for the Manzanillot extension of the Mexican Central Ry., sub-letting it later to Hampson & Smith, has been given the contract for the construction of the Tampico short line of the Mexican Central. The Boston company has sub-let 50 kilometers to BELL & SIMMES, contractors, of Mexico City, Mex. Work will b estarted at Tamos, the first station out of Tampico, on the San Luis division of the Central, and a grading outfit has been already shipped there. The Tampico short line will reduce the distance by rail between Mexico City and Tampico from 771 to 290 miles. C. P. Weber has been appointed resident engineer in charge of the construction of the Tampico line.

RAILWAY.—Tampico.—It is stated on reliable authority that the Tampico Short Line of the Mexican Central, for which surveys have been in progress for the past five years, will not be abandoned on account of the Government merger of railways. The Government desires the line for strategic reasons, and it will be the first big piece of construction undertaken after the merger details are completed. It is expected the contract for construction will be let within the next few months. The length of the present line from Mexico City to Tampico is 771 miles. The proposed line will be but 290 miles long, about 70 miles being already in operation to Apulco. The extension will require some of the heaviest work in Mexico, and the estimated cost is $25,000,000, Mexican currency. Lewis Kingman, City of Mexico, is Ch. Engr.

GAS PLANT.—Guadalajara, Jal.—J. Guillermo Dominguez, Atty., of Los Angeles, Cal., has secured from the State Government of Jalisco a concession for a gas plant in Guadalajara. He is said to represent interests other than those which recently secured a concession from the Federal Government for the generation of gas from petroleum in Mexico City and other cities in the republic. These latter interests are controlled by the Mexican Petroleum Co., which owns the Evano oil fields, and of which E. L. Dohony is Pres. The Guadalajara concession carried an exemption from State and Municipal taxation for a period of 20 yrs., and grants the concessionaire, or the company which he may organize, the right touse the streets in laying gas mains. A forfeit deposit of $2,000, to be made within two months, is required.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

GRADING, ETC.—Boston, Mass.—Bids were received as follows by the Metropolitan Park Commission, John R. Rablin, Engr., for grading, surfacing and other work, Quincy Shore Reservation, Atlantic St., to National Sailors' Home, Quincy, contract for which has been awarded to the lowest bidders, COLEMAN BROS., on basis of gravel road surfacing. The bidders were: (A) Bruno, Salomone & Petitti, 23 Court St., Boston; (B) Richmond, F. Hudson, Melrose, Mass.; (C) John E. Palmer, 166 Devonshire St., Boston; (D) T. Stuart & Son Co., Newton, Mass.; (E) John F. Gill Co., Somerville, Mass.; (F) Coleman Bros., 15 Court Sq.:

	(A)	(B)	(C)	(D)	(E)	(F)
17,100 sq. yds. gravel walk surfacing	$0.50	$0.45	$0.40	$0.25	$0.25	$0.30
39,400 sq. yds. roadway surfacing (gravel)	.55	.70	.45	.45	.30	.30
39,400 sq. yds. roadway surfacing (broken stone)	.65	.70	.68	.55	.64	.48
1,000 cu. yds. loam furnished	1.50	1.50	1.60	1.25	1.00	1.25
6,000 cu. yds. loam surfacing	.42	.50	.40	.40	.25	.30
18,000 lin. ft. concrete edgestone	1.15	.60	1.00	.75	.53	.55
1,000 sq. yds. concrete gutters	2.00	1.50	2.00	1.35	1.15	1.25
40 catch-basins, 2 ft. in depth	20.00	15.00	20.00	20.00	15.00	15.00
75 catch-basins, 7.5 ft. in depth	38.00	30.00	38.00	45.00	45.00	35.00
50 cu. yds. concrete masonry	10.00	10.00	9.00	7.00	8.00	8.00
750 lin. ft. 18-in. vit. pipe	1.50	1.00	.90	1.50	1.40	1.25
200 lin. ft. 15-in. vit. pipe	1.00	.75	.80	.75	1.15	.75
4,900 lin. ft. 12-in. vit. pipe	.80	.50	.55	.60	.80	.50
5,000 lin. ft. 10-in. vit. pipe	.65	.40	.42	.50	.70	.40
600 lin. ft. 8-in. vit. pipe	.55	.30	.30	.30	.62	.40
800 lin. ft. 6-in. vit. pipe	.45	.25	.20	.25	.54	.30
2,000 cu. yds. filling material	.70	1.00	1.10	.75	.65	.60
8,000 cu. yds. earth grading	.52	.50	.65	.40	.49	.40
Totals—Broken stone	$79,775	$67,155	$75,102	$60,765	$61,780	$52,284
Totals—Gravel	$75,835	$67,155	$66,040	$56,825	$48,384	$45,192

*DAM MACHINERY.—Louisville, Ky.—Bids in detail were received on April 23, for steel and iron parts for Chanoine dam. Capt. H. Burgess, Corps of Engrs., U. S. A. The bidders were as follows: (A) Heppenstall Forge & Knife Co., Pittsburg, Pa.; (B) Penn Bridge Co., Beaver Falls, Pa.; (C) New Jersey Foundry & Machine Co., New York; (D) Allegheny Forging Co., Pittsburg; (E) Richmond Iron Works, Richmond, Va.; (F) Atlanta Machine Works, Atlanta, Ga.; (G) H. Clay Evans, Chattanooga, Tenn.; (H) Grainger & Co., Louisville, Ky.; (I) Pennsylvania Contracting Co., Pittsburg:

	Lbs.	(A) cts.	(B) cts.	(C) cts.	(D) cts.	(E) cts.	(F) cts.	(G) cts.	(H) cts.	(I) cts.
168 steel or wrought iron horses	95,250	5.95	9.02	15.00	....	9.00	11.03	7.68	5½	7.00
168 steel or wrought iron props	124,300	5.95	6.07	10.00	5⅞	11.00	7.09	7.07	5½	7.00
164 cast-iron hurters	192,700	3⅝	3.02	2.07	3⅓	3.00	3.02	2.56	2½	3.00
170 cast-steel horse boxes	31,300	6.00	9.05	23¼	8.00	10.00	15.00	6.45	6½	7½
340 cast-steel horse box keys	7,100	6.00	9.05	23¼	....	8.00	14.00	6.45	8½	7½
1 steel or wrought iron bed plate	51,000	5½	5.04	4¼	....	7.00	7.00	5.97	4½	4⅜
81 steel or wrought iron cover plates	11,250	4½	5.04	4¼	....	7.00	7.00	3.77	4½	4⅜
164 2¼-in. steel or wrought iron hold down bolts, 4 ft. long	10,332	3⅝	4.04	3.03	3.02	5.00	6.00	4.88	4.00	3½
164 2-in. steel or wrought iron hold down bolts, 4 ft. 9 ins. long	9,840	3⅝	4.04	3.03	3.02	5.00	6.00	4.88	4.00	3½
984 1¼-in. steel or wrought iron hold down bolts, 2½ ft. long	11,582	3⅝	4.04	3.03	3.02	4.00	6.00	4.88	3¾	3½
340 ¾-in. steel or wrought iron horse box bolts, 5 ins. long	340	3⅝	4.04	3.03	3.02	6.00	6.00	4.88	4½	3½
Total of bid		$26,265	$31,679	$44,553	Incomplete	$37,574	$38,721	$29,331	$23,588	$27,876

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

PORT WORKS, DREDGER.—Brazil.—The plans, specifications and estimates submitted by Percival Farquhar, Engr., for the first section of the improvement works to be carried out at the port of Belem has been approved. The cost of the first portion of this section of the works is estimated at 35,091,260 milreis (about $11,693,000), and of the second portion at 25,750,061 milreis (about $8,360,000). The materials required for these works include a hopper-dredger with a capacity of 200 cu. metres per hour.

BUILDING AND PAVING MATERIALS: ELECTRICAL PLANT.—Austria-Hungary.—The "Bulletin Commercial," Brussels, states that the Municipality of Agram proposes to contract a loan of 10,000,000 crowns (about $2,030,000) to be expended on canalization and paving, and the construction of an electric generating station, public baths, markets, abattoirs, etc.

It is also stated that the Municipality of Temesvar is about to expend 4,560,000 crowns (about $925,680) on canalization and paving works, and the construction of new streets.

DRAINAGE AND WATER-WORKS.—Argentina.—Surveys are to be made for drainage works in the following cities: Tucuman, Corrientes, Avellaneda, Bahia Blanca, Mar del Plata; and for water-works in Mercedes (San Luis), Rio Cuarto, Villa Maria, Villa Nueva, Belle Ville, Esperanza, Concordia, Colon, Uruguay, Victoria, Nogoya, La Paz, Diamante, Goya, Monteros, Ville Casilda, Curuzu Cuatia, Villaguay, Villa Mercedes (Corrientes), Pergamino, Azul, Dolores, Gral, Lavalle, San Nicholas, Mercedes, Chivilcoy, Junin, Lomas, Tandil and Andalgala. The cost of these surveys is estimated at $500,000. The surveys and estimates as prepared are to be submitted to Congress.

RECONSTRUCTION OF VALPARAISO.—Chile.—Alfred A. Winslow, U. S. Consul at Valparaiso, reports that a loan for $5,353,000 will be contracted by the Republic to repair the damages caused by the earthquake of Aug. 16, 1906. Of this sum $1,460,000 is to be devoted to the repair and construction of public buildings. Consul Winslow states that "there is an opening for a large amount of building material, especially of cement, iron and steel, glass and builders' hardware, paints, oils, etc. There is no question but what matters will be pushed here for the next few years along the building line, and now is the time for American interests to get a better foothold. More substantial structures will be erected. More cement and brick and iron and steel will be used. The following commission has been appointed to assist the governor of the province and the mayor of the city in carrying out the law in conjunction with the President: Messrs. Domingo, Victor Santa Maria, Alejandro Bertrand, Santiago Lyon, Alejo Barrios and Francisco Valdes Vergara." The law authorizing this loan contains nothing relative to the free entry of building materials during the reconstruction period.

COMPETITIVE PLANS FOR WHARF, Etc.—Sweden.—At the request of the Town Council, the Harbor Board of Gothenburg invites entries to the international prize competition for plans for quay and wharf constructions in the proposed new freight harbor at Sannegardsviken, Gothenburg. Regulations and survey charts may be obtained by sending in an application, together with ten Swedish crowns, to Goteborgs Stads Byggnadskontor, Marten Krakowgatan No. 5, where further information may be obtained from the Secretary. The regulations and charts are drawn up in both the Swedish and German languages. Three prizes are offered in this competition: First, 2,500 Swedish crowns ($770); second, 1,500 crowns ($400); third, 1,000 crowns ($270). The Harbor Board, moreover, on behalf of the town, reserve the right of buying any plans sent in, but not receiving a prize, upon payment of 500 Swedish crowns. The plans are to be sent in to "Goteborgs Stads Byggnadskontor" by noon, Sept. 2, and as soon as is conveniently possible after the expiration of the time of competition will be judged by the jurors, whose award will be made known in the official gazette and likewise in two of the daily papers of Gothenburg.

RECONSTRUCTION OF KINGSTON, JAMAICA.—W. H. Orrett, U. S. Vice-Consul, at Kingston, reports that "the government very wisely has under consideration a building law which aims at a uniform class of reconstructed buildings to more readily stand the violence of nature or fire, and it would appear that steel with reinforced concrete will play an important part in this reconstruction of the principal business houses and banks, so that the present would, in my opinion, be an opportune time for American steel, iron and cement manufacturers who make a specialty of such work to do some preliminary work in exploiting the situation. The citizens having appealed to the British Government for an imperial loan of some $5,250,000 to be used for reconstruction purposes, I take it that if it is granted very stringent provisions will be made in its application, so as to insure buildings being erected as earthquake and fire proof as possible so as to safeguard the loan or grant; hence it is obvious that these buildings will be constructed principally of steel and reinforced concrete, and thus American manufacturers, from their proximity to this island, should, in the matter of freight and passage of skilled workmen, etc., have a very material advantage over European competitors. There will also be an abnormal demand for builders' hardware, cement, lumber, structural iron or steel, etc., for the next three years or more, and it will pay the American producer to study the field. The demand will be especially strong for structural steel and corrugated iron. More of the latter will be used now than ever, not only for roofing, but for sheeting or siding for buildings."

RAILWAY.—Colombia.—Jay White, U. S. Consul-General at Bogota, Colombia, advises us that an undertaking allied with the Girardot Railway (Ferrocarril de Girardot) may shortly be in a position to employ a limited number of construction engineers in connection with the Girardot and Antioquia railways. Applications, accompanied by copies (not originals) of credentials, should be addressed to E. B. Fearon, Esq., Gen. Mgr., Ferrocarril de Girardot, Apartedo 455, Bogota, Colombia. The Girardot Railway has 80 miles under operation and 205 miles contemplated or under construction. The Girardot Railway runs from Girardot, on the Magdalena River, through Hospicio, and is to connect with the Sabana Railway at Facatative, a distance of 80 miles, which is to be completed Jan. 1, 1908. The Antioquia Railway, when finished, will consist of the extension of the road from Puerto Berrio to Medellin, 78 miles. The construction of a line to join the Dorada Railway with the "Puerto Berrio & Medellin Railway" at Providencia, 75 miles, and the extension of the line from Puerto Berrio to Barranca Bermeja, 50 miles.

Other engineering works contemplated or in course of construction in Colombia are: The extension of the Dorada Railway (Ferrocarril de la Dorada), from Honda to Ambalema; total, 66 miles. Office in London: Finsbury Pavement House, E. C. Arthur D. Thomas, Honda, Colombia, Gen. Mgr.

The Buenaventura Railway is being extended to Buga. Alfred Bishop Mason, Buenaventura, Colombia.

The Cambao-wagon-road, from Facatativa to Cambao, on the Upper Magdalena River. Thomas B. Nowell, Gen. Mgr., Bogota, Colombia. Total length of road, 75 miles.

Some material is on the ground for the construction of the railway from the Ciudad Reyes, on the Gulf of Darice, to Medellin. Henry Granger, Director, Cartegena, Colombia.

A concession has been granted for the extension of the Northern Railway, from Bogota-Zipaquira to Chiquinquira. Total length already in service, 40 miles. George D. Child, Gen. Mgr., Bogota, Colombia.

The usual wage paid to foreign construction engineers in Colombia is $100 gold per month, with full camp allowance for food, house, servant, furniture, horse, etc. All applicants for positions are required to have a knowledge of the Spanish language and furnish references and state age and experience. So-called "yellow fever immunes" are preferred.

It is proposed to instal a new sewer and water system in the City of Bogota, relay the pavements, build new hospitals, public schools, abattoirs, markets, and 2,000 model workingmen's houses. The municipal improvements also contemplate the conversion of the present horse car service into an electrical line. All the work is reported to be under the control of English concessionists, with the exception of the Buenaventura and Colombian Central Railways, and the Bogota Street Railroad, which are controlled by American capital. A sketch map showing existing and proposed railways and roads is on file at office of Engineering News, New York.

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—

Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, 2.40 to 2.50 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—

New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $31 to $33; old iron f. o. b. New York, $25 to $25.50; old steel, long lengths, $17.50 to $18; old steel, short pieces, $16.50 to $17.

Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.50 to $28; light rails, 20 to 45 lbs., $32; 16-lb., $33; and 12-lb., $34 at mill.

STRUCTURAL MATERIALS—

New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts.; angles, 3 x 2 and up to 6 x 6, 1.84½ cts.; zees, 3-in. and larger, 1.89½ cts.; tees, 3-in. and larger, 1.89½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—

New York—at tidewater—Sheared plates tank, 1.84½ to 1.94½ cts.; flange, 1.94½ to 2.14½ cts.; marine, 2.24½ to 2.44½ cts.; still bottoms, 2.14½ to 2.29½ cts.; fire-box, 2.75 to 3.50 cts.

Pittsburg—Tank, ¼-in. thick and heavier, 1.70 to 1.80 cts.; black sheets, 27-gage, 2.50 to 2.55 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—

Pig Iron:

At New York—tidewater—

Northern—	
No. 1 X foundry	$26.50 to $27.00
No. 2 X foundry	25.00 to 26.50
No. 2 plain	24.50 to 25.00
Gray forge	24.00 to 25.00
Basic	24.50 to 25.00
Virginia—	
No. 1 foundry	26.50 to 27.00
No. 2 foundry	26.00 to 26.50
Basic	23.50 to 24.50
Southern—	
No. 1 foundry	26.50 to 27.00
No. 2 foundry	26.00 to 26.50
No. 3 foundry	25.50 to 26.00
No. 4 foundry	24.50 to 25.00
No. 1 soft	25.50 to 26.00
No. 2 soft	25.50 to 26.00
Gray forge	25.50 to 26.00
Mottled	22.50 to 23.00
Lake Superior Charcoal	25.50 to 26.00
Northern Coke Foundry, No. 1	26.50 to 27.00
Northern Coke Foundry, No. 2	26.00 to 26.50
Northern Coke Foundry, No. 3	25.50 to 26.00
Northern Scotch, No. 1	26.00 to 27.00
Ohio Strong Softeners, No. 1	26.00 to 26.50
Ohio Strong Softeners, No. 2	25.50 to 26.00
Southern Coke, No. 1	26.35 to 27.10
Southern Coke, No. 2	25.85 to 26.35

Southern Coke, No. 3	25.85	to	25.85
Southern Coke, No. 4	24.85	to	25.35
Southern Coke, No. 1 Soft	26.35	to	26.85
Southern Coke, No. 2 Soft	25.85	to	26.35
Southern Gray Forge	21.85	to	22.35
Southern Mottled	21.85	to	22.35
Malleable Bessemer	26.50	to	27.00
Standard Bessemer	25.30	to	25.80
Jackson Co. and Kentucky Silvery, 6%	30.30	to	30.80
Jackson Co. and Kentucky Silvery, 8%	32.30	to	32.80
Jackson Co. and Kentucky Silvery, 10%	34.30	to	34.80
At Pittsburgh, f. o. b. cars—			
No. 2 Foundry	$24.50	to	$25.00
Gray Forge			20.85
Bessemer Iron	21.55	to	23.35
Ferro-manganese			75.00
Muck Bars	34.00	to	37.00
Iron Bars	1.80	to	1.85
Cut Nails			2.05

Cast-iron Pipe:

New York—Carload lots, net tons, 6-in., at tidewater, $34.50 to $35.

Chicago—4-in. water pipe, $37 to $38; 6-in. to 12-in., $36 to $37; over 12-in., $35 to $36, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Asphaltum:

Ventura and other California asphalts, $20 to $23 per ton at New York; Trinidad refined, $22 to $25 per ton; Venezuela asphalt, $25 to $60 per ton; Bermuda asphalt, $25 to $35.

Cement:

Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.

Copper:

Lake, 24.75 to 25 cts.; electrolytic, 24.25 to 24.75 cts.; casting, 23.50 to 24 cts.

Lead:

New York, spot, 6.00 to 6.10 cts.

Spelter:

New York, spot, 6.55 to 6.65 cts.

Tin:

New York, 42.30 to 42.55 cts.

Tar:

New York, $5.85 to $6 per bbl.

Pitch:

New York, $3.20 per bbl.

LUMBER—

New York, wholesale prices:

Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.

Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 67 to 69 cts.; 6 × 8 ins. × 8 ft., 62 to 64 cts.; 7 × 9 ins. × 8 ft., 75 to 77 cts.; 7 × 8 ins. × 8½ ft., 74 to 75 cts.; 7 × 9 ins. × 8½ ft., 79 to 80 cts.

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

CAR REPLACERS.—Rochester, N. Y.—The Burgard-Wise Con. Co., Cobbs Hill Reservoir, Rochester, N. Y., desires information relative to car replacers.

REFRIGERATING MACHINE.—Mogollon, N. Mex.—The Ernestine Mining Co., Mogollon, N. Mex., advises us that information is wanted relative to Ice and Refrigerating Machinery.

INSTRUMENTS.—Red Springs, N. C.—J. E. Purcell, of Red Springs, N. C., is in the market for a complete transit and possibly other instruments. He would like catalogues and net lists from various manufacturers.

GASOLINE MOTOR COACH.—Waycross, Ga.—We are advised that Capt. L. Johnson, Waycross, Ga., desires information relative to gasoline motor coaches to run on standard gage tracks, capable of carrying thirty people.

MACHINERY.—Mexico City, Mex.—Bolton & Marean Independencia No. 12, Mexico City, write us that they desire information relative to water wheels, electrically-driven sugar machinery, sawing machinery and defibrating machinery.

ELECTRIC MOTORS.—Boston, Mass.—The Bryne Contracting Co., 53 State St., Boston, Mass., advises us that it desires catalogues on electric motors, electric hoists, etc., for operating concrete mixers, pumping and operating derricks.

CEMENT PLANTS, ROCK CRUSHING PLANTS, BLOCK SIGNALS.—Manila, P. I.—R. K. West, Bureau Pub. Wks., Manila, writes us that he would like information on cement plants of small capacity, rock crushing plants and block signals suitable for mountain highway with heavy freight traffic in wagons and passenger traffic in automobiles and six-mule stages. A system is needed to prevent unexpected meetings of the automobiles by the mule teams at shorp bends.

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CIVIL SERVICE EXAMINATIONS.

AIDS.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on May 15-16 for position of Aid in the Coast and Geodetic Survey. Application Form 1312. Details will be given next week.

ELECTRICAL DRAFTSMAN.—North Chicago, Ill.—An examination of applicants will be held at the Federal Building, Chicago, Ill., on May 15, to fill the position of Electrical Draftsman at the Naval Training Station, North Chicago, at $5.04 a day. Applications are to be addressed to the "Commandant, Naval Training Station, North Chicago, Ill.," and must be delivered on or before May 13. No application received after that date will be considered.

FARRIER.—Fort Riley, Kan.—The U. S. Civil Service Commission announces an examination on May 15 to secure eligibles from which to make certification to fill a vacancy in the position of Farrier, at $1,440 a year, in the Quartermaster's Department at Large, Fort Riley, Kan., and vacancies as they may occur in any branch of the service requiring similar qualifications. Age limit, 20 years. Application form 1312.

STRUCTURAL STEEL DRAFTSMAN.—New York, N. Y.—Eligible list for the position of Structural Steel Draftsman will be given next week. Examination was held by the Municipal Civil Service Commission on April 26.

STATIONARY ENGINEER.—New York, N. Y.—The Municipal Civil Service Commission, 299 Broadway, will hold an examination on May 27, at 10 a. m., for the position of Stationary Engineer (electric pumping stations). Applications will be received until 4 p. m., May 6. The percentage required is 75 on the technical paper and 70 on all. Candidates will be required to take charge of and operate the new high-pressure fire service pumping stations, using electric machinery and centrifugal pumps. They must be familiar with the use and operation of high and low tension electric machinery and have had at least four years' experience as an apprentice or practical machinist, and at least three years' experience in handling high tension electric machinery. The salary is $1,500 a year. There will be six vacancies in Manhattan and six in Brooklyn. The minimum age is 23 years. Frank A. Spencer, Secy.

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INDUSTRIAL NOTES.

CLARKE & CO., New York, announce their removal to the Brunswick Building, Fifth Ave. and 26th St.

CHAMBERS & HONE, ENGINEERS, New York City, announce their removal from 60 New St. to 15 William St.

THE PARKER BOILER CO., Philadelphia, Pa., announces that its New York office has been changed from 220 Broadway to 20 West St.

THE GILMOUR-HORTON-ALLEN CO. has been organized at Sandy Hill, N. Y., to conduct a general engineering and contracting business.

HYDE BROTHERS & CO., of Pittsburg, announce the opening of an office in the Washington Life Building, 141 Broadway, New York, on May 1, 1907.

THE NORTHAMPTON PORTLAND CEMENT CO. announces that on and after May 1st the sales office of the company will be located at the general office and mill, Stockertown, Pa.

THE CONTRACTORS' SUPPLY & EQUIPMENT CO., of Chicago, Ill., announces the opening of a branch office in Detroit, Mich., at No. 1208 Majestic Bldg., Mr. William Ord being manager of the same.

THE CHICAGO CONCRETE MACHINERY CO. announces its removal from 22 West Randolph St. to larger quarters at 20 South Canal St. This company manufactures the Chicago concrete mixer and other specialties in concrete work.

THE CYCLONE DRILL COMPANY, of Orrville, O., has recently shipped special blast hole drillers and loaders to Kershaw & Price, Middleboro, Ky.; Grant Smith & Co., Rosalia, Wash., and F. H. Clement & Co., Brunswick, Md., to be used on their present contracts.

THE LOCK JOINT PIPE CO., 346 Broadway, New York, have recently secured contracts for protecting piles (with their lock joint pipe, against teredo and limnoria) from the following companies: Pennsylvania R. R. Co., Charlotte Harbor & Northern R. R. Co., Norfolk & Southern R. R. Co., and the Louisville & Nashville R. R. Co.

THE TURNBULL CONSTRUCTION CO., Robert Mair, Secretary, 1205 Penna Bldg., Philadelphia, Pa., advises us that REID-TURNBULL CONSTRUCTION COMPANY has changed its corporate title to TURNBULL CONSTRUCTION COMPANY, and notice is further given that Mr. William Lawrie Reid has no longer any connection with said company.

THE TRAYLOR ENGINEERING COMPANY respectfully announces that owing to the unprecedented growth of its business, necessitating considerable additional space for its clerical and engineering corps, it has secured the commodious top floor of the United States Express Company's new building, 54-56 Trinity place, New York City, and is now located there.

THE AVERY MFG. CO., Peoria, Ill., advises us that it has finished the erection of five large sheds for the storage of traction engines at the north of its plant, about 150 ft. by 30 ft. in size. They will accommodate in all about eighty engines, and are necessitated on account of the increased demand, demanding that we continually have on hand a large stock of engines of all sizes.

THE MINNEAPOLIS STEEL & MACHINERY CO., of Minneapolis, Minn., advises us that it has opened a branch office at 262 Commerce St., Dallas, Tex., under the management of Mr. J. P. Greenwood. "The large demand for Twin City Corliss engines and Muenzel producer gas engines in this territory made it necessary for us to open an office in this state, so as to take care of our increasing business."

MR. W. M. CUMMER, President of the Atlas Dryer Co., is no longer President of the F. D. Cummer & Son Co. The Atlas Dryer Co. will manufacture the Atlas Dryer, an invention of Mr. W. M. Cummer. The company will also manufacture asphalt paving plants. (Portable, stationary and railroad.) Gypsum calcining plants and brick dryer. Mr. Cummer has had experience in the dryer line for over twenty years.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 158.

WOOD OR VITRIFIED BLOCK PAVEMENT.

Bridgeport, Conn.

Sealed proposals are invited by the Aldermanic Committee on Streets and Sidewalks for furnishing and laying about 14,500 square yards of wood or vitrified paving blocks on Fairfield Avenue, from Park Avenue to Clinton Avenue.

Bids will be received at the City Clerk's Office, City Hall, until 8 o'clock P. M., Tuesday, May 21, 1907, and should be addressed to the undersigned, and endorsed "Bid for Fairfield Avenue Pavement."

Each bid must be accompanied by a certified check for one thousand ($1,000) dollars, made payable to the Treasurer of the City of Bridgeport.

Specifications and blank forms for bidding can be obtained from the City Surveyor, City Hall, Bridgeport, Conn.

The Committee reserves the right to reject any or all bids.

A. V. HARTLEY,
Chairman, Committee on Streets and Sidewalks.

April 30, 1907. 18-2t

OUTFALL SEWER.

Baltimore, Md.

Separate sealed proposals, indorsed "Proposal for Building Outfall Sewer, Section 4," "Proposal for Building Outfall Sewer, Section 5," "Proposal for Building Outfall Sewer, Section 6," "Proposal for Building High Level Interceptor, Section 1," "Proposal for Building High Level Interceptor, Section 2," addressed to the Board of Awards of Baltimore City, will be received at the office of Mr. Harry F. Hooper, City Register, City Hall, Baltimore, Md., until 11 A. M., Wednesday, May 15, 1907, for Building Outfall Sewer, Sections 4, 5 and 6; and for Building High Level Interceptor, Sections 1 and 2; all as shown on plans on file in the office of the Chief Engineer of the Commission.

Specifications and plans can be obtained upon application at the office of the Sewerage Commission, Room 904, American Building, Baltimore, Md., on and after the third day of May, 1907. A charge of twenty-five cents will be made for each specification with blueprints.

A certified check, upon a national bank of Baltimore, made payable to the order of the Mayor and City Council of Baltimore, for the respective amounts as shown below, will be required to be deposited with each bid, viz:—

	Amount of Check.
Outfall Sewer, Section 4	$4,700
Outfall Sewer, Section 5	4,400
Outfall Sewer, Section 6	5,000
High Level Interceptor, Section 1	3,200
High Level Interceptor, Section 2	4,000

Approximate Quantities are as follows:

Outfall Sewer.

(11′ 0″ × 12′ 3″ Concrete Sewer.)

Section 4: 2947 lin. ft. Section 5: 2975 lin. ft. Section 6: 3248 lin. ft.

High Level Interceptor.

(8′ 4″ diameter Concrete Sewer.)

Section 1: 2535 lin. ft. Section 2: 2665 lin. ft.

The successful bidder will be required to give bond and comply with the City Charter respecting contracts.

Bids for each section of the work will be considered separately.

The Board reserves the right to reject any and all bids. No bid after being filed can be withdrawn without the consent of the Board of Awards.

By order of the Sewerage Commission.

PETER LEARY, Jr.,
Chairman.

HARRY W. RODGERS,
Secretary.

Approved:
E. CLAY TIMANUS,
President, Board of Awards. 18-1t

SPECIFICATIONS FOR
RAILWAY STATIONS
By CLARK DILLENBECK

Stone and Brick Passenger Stations
Frame Passenger Stations
Stone and Brick Freight Houses
Frame Freight Houses

Each occupying about 32 pages. 8 x 14 ins.
Price, 40 cents each; Full Set, $1.50

The Engineering News Publishing Co.

Situations Wanted

POSITION WANTED.—Indus[illegible] Engineer, 12 years' practical exper[illegible] at designing and superintending w[illegible] including power plants, industrial wo[illegible]mercantile buildings, dredges and m[illegible]ry. Capable on structural steel [illegible] reinforced concrete design. Have [illegible] address, business ability, am energe[illegible] original thinker, and come well [illegible]mmended. Will consider only high [illegible] position. Address "A. B. 18," Eng[illegible]ng News, New York. 18-2t

CIVIL ENGINEER, good dr[illegible] in reinforced concrete and st[illegible]ral steel, wants to change position[illegible]uld take outside work. Address [illegible] Engineering News, New York. 18-1t

TECHNICAL MAN, 34, fifte[illegible]rs' experience at general engineeri[illegible]sires position as office assistant or [illegible]perintend construction; best referen[illegible] Address "M. B. 18," Engineering Ne[illegible]ew York. 18-1t

ARCHITECT and superintend[illegible] 20 years' experience, desires position a[illegible]perintendent, heavy structures, re[illegible]ced concrete or manufacturing plant[illegible]st of references; no objection to go [illegible] of New York. Address "K. B. 18," [illegible]gineering News, New York. 18-2t

Miscellaneous Wants

CONSULTING ENGINEER, living in Philadelphia, will take trip to Europe about the middle of May; wishes commissions to report on apparatus and processes. Address 1628, Land Title Building. 18-1t

SITUATIONS OPEN

WANTED—For New York vicinity, assistant engineers and chainmen who have had practical experience on railroad construction; salary and expenses. Address "L. B. 18," Engineering News, New York. 18-1t

MECHANICAL OR MINING ENGINEER, graduate of American college, wanted to design machinery and heavy wooden structures. THE TRENTON IRON CO., Trenton, N. J. 18-1t

FOR SALE

Plant for Sale!

Curley Pennell
Contracting Company
Fulton Avenue and Boulevard
Jersey City

1	65 Ton Vulcan Steam Shovel, 3 Sets Engines, 2 cu. yd. Dipper.
2	9 × 14 Saddle Tank Vulcan Locomotive.
20	4 cu. yd. Bloomsburg Cars.
25	4 cu. yd. Ryan McDonald Cars.
10	3 cu. yd. K. and J. Cars.
1	4 Horse power Gasoline Engine and Triplet Pump, 2 in. Dis.
2	Ingersol Steam Drills.
2	Murphy Steam Drills.
1	40 Horse power Upright Boiler.
2	6 Guy Derricks, 65 and 55 ft. boom.
1	5 Guy Derricks, 45 ft. boom.
2	8 × 10 D. D. & D. C. Lidgerwood Hoister, "Skeleton."
2	7 × 10 D. D. & D. C. Lidgerwood Hoister, "Skeleton."
1	6½ × 8½ D. D. & D. C. Ryan McDonald Hoister and Boiler.
3	Iron Dumping Concrete Buckets.
3	Circular Cedar Tanks.
2	Square Cedar Tanks.
1	Circular Iron Tank with Manhole, a number of Frogs and Switch Points, 30 lb. Rail.

18-tf

FOR SALE OR RENT

Two Buckeye Traction Ditching Machines

Will dig from 16 inches to 24 inches wide and 6 feet deep. Both in good order; ready for immediate delivery. Inquire THE HARBISON CONSTRUCTION CO., 837 Broad St., Newark, N. J. 18-tf